A.J. Antunes & Co.

RAPID TOASTER
MODEL VCT-200
Manufacturing Numbers 9200500/502/504

Place this manual in the Toaster section
of your *Equipment Manual.*

Manufactured exclusively for
McDONALD'S®
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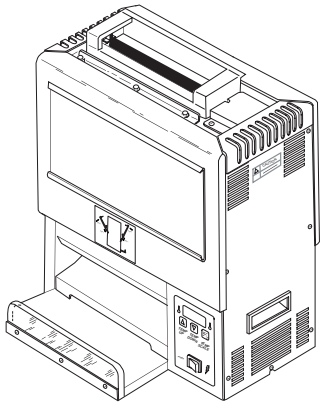

TABLE OF CONTENTS

Warranty 1
Owner Information.....2
General.....2
Warranty Information.....2
Service/Technical Assistance.....2
Model Designation 2
Important Safety Information 3
Specifications 5
Electrical Ratings 5
Electrical Cord & Plug Configurations.....5
Dimensions.....6
Installation.....7
Unpacking 7
Assembling The Unit 7
Location.....8
Operation.....9
Operating Instructions.....9
Temperature Adjustments 9
Safety Features.....11
Maintenance.....12
Daily Cleaning.....12
Every 3 Months-Changing the Release Sheet and Groovy Belt Wraps 12
Servicing Conveyor Belts.....15
Replacing Roller Tensioners.....15
Replacing Conveyor Motor and Fan Blade 16
Troubleshooting 17-25
Wiring Diagrams.....26-27
Replacement Parts.....28-34

LIMITED WARRANTY

Equipment manufactured by Roundup Food Equipment Division of A.J. Antunes & Co. has been constructed of the finest materials available and manufactured to high quality standards. These units are warranted to be free from mechanical and electrical defects for a period of two years from date of purchase or 30 months from shipment from factory, whichever occurs first, under normal use and service, and when installed in accordance with manufacturer's recommendations. To insure continued proper operation of the units, follow the maintenance procedure outlined in the Owner's Manual. During the first 12 months, all parts and non-overtime labor and travel expenses within a 50 mile/80 km (100 mile/160 km round trip) radius of the nearest Authorized Service Center are covered; during the 13th to 24th month, parts only are covered (no labor or travel expense).

1. This warranty does not cover cost of installation, defects caused by improper storage or handling prior to placing of the Equipment. This warranty does not include overtime charges or work done by unauthorized service agencies or personnel. This warranty does not cover normal maintenance, calibration, or regular adjustments as specified in operating and maintenance instructions of this manual, and/or labor involved in moving adjacent objects to gain access to the Equipment. This warranty does not cover consumable items such as platen release sheet and conveyor belt wraps. Travel time and mileage in excess of 50 miles from the nearest authorized service agency is not covered under this warranty.

2. Roundup reserves the right to make changes in design or add any improvements on any product. The right is always reserved to modify equipment because of factors beyond our control and government regulations. Changes to update equipment do not constitute a warranty charge.

3. **If shipment is damaged in transit, the purchaser should make a claim directly upon the carrier. Careful inspection should be made of the shipment as soon as it arrives and visible damage should be noted upon the carrier's receipt. Damage should be reported to the carrier. This damage is not covered under this warranty.**

4. Warranty charges do not include freight or foreign, excise, municipal or other sales or use taxes. All such freight and taxes are the responsibility of the purchaser.

5. THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, EACH OF WHICH IS HEREBY EXPRESSLY DISCLAIMED. THE REMEDIES DESCRIBED ABOVE ARE EXCLUSIVE AND IN NO EVENT SHALL ROUNDUP BE LIABLE FOR SPECIAL CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR THE BREACH OR DELAY IN PERFORMANCE OF THIS WARRANTY.

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OWNER INFORMATION

General

This manual is produced for the Rapid Toaster Model VCT-200 with manufacturing numbers 9200500, 9200502 & 9200504.

The Rapid Toaster Model VCT-200 is designed for contact toasting of buns. The toaster design allows the operator to place buns on both sides of the heated platen at the same time. Buns are placed into the bun feeder on the top of the toaster and uniform golden brown, warm buns are then retrieved at the base of the toaster.

This manual provides the safety, installation and operating procedures for the Rapid Toaster Model VCT-200. We recommend that all information contained in this manual be read prior to installing and operating the unit.

The Rapid Toaster Model VCT-200 is manufactured from the finest materials available and is assembled to Roundup's strict quality standards. This unit has been tested at the factory to ensure dependable trouble-free operation.

Warranty Information

Please read the full text of the Limited Warranty in this manual.

If the unit arrives damaged, contact the carrier immediately and file a damage claim with them. Save all packing materials when filing a claim. Freight damage claims are the responsibility of the purchaser and **are not** covered under warranty.

The warranty **does not** extend to:

- Damages caused in shipment or damage as result of improper use.
- Installation of electrical service.
- Normal maintenance as outlined in this manual.
- Malfunction resulting from improper maintenance.
- Damage caused by abuse or careless handling.
- Damage from moisture into electrical components
- Damage from tampering with, removal of, or changing any preset control or safety device.

Service/Technical Assistance

If you experience any problems with the installation or operation of your unit, contact your local Roundup Authorized Service Agency.

Fill in the information below and have it handy when calling your authorized service agency for assistance. The serial number is on the specification plate located on the rear of the unit.

Purchased From: _____

Date of Purchase: _____

Model No.: _____

Serial No.: _____

Mfg. No.: _____

Refer to the service agency directory packaged with your manual and fill in the information below:

Authorized Service Agency

Name: _____

Phone No.: _____

Address: _____

Use only genuine Roundup replacement parts in this unit. Use of replacement parts other than those supplied by the manufacturer will void the warranty. Your Authorized Service Agency has been factory trained and has a complete supply of parts for this toaster.

You may also contact the factory at **1-877-392-7854** if you have trouble locating your local authorized service agency.

Model Designation

VCT-200XX

TYPE OF POWER CORD
R = ROCKBESTOS
H = HARMONIZED
C = COMMERCIAL

TYPE OF PLUG
D = Domestic Pin and Sleeve
I = International Pin and Sleeve
R = Right Angle Twist-Lock
S = Straight Twist-Lock

IMPORTANT SAFETY INFORMATION

Throughout this manual, you will find the following safety words and symbols that signify important safety issues with regards to operating or maintaining the equipment.

⚠ WARNING ⚠

GENERAL WARNING. Indicates information important to the proper operation of the equipment. Failure to observe may result in damage to the equipment and/or severe bodily injury or death.

⚠ WARNING ⚠

ELECTRICAL WARNING. Indicates information relating to possible shock hazard. Failure to observe may result in damage to the equipment and/or severe bodily injury or death.

⚠ CAUTION ⚠

GENERAL CAUTION. Indicates information important to the proper operation of the equipment. Failure to observe may result in damage to the equipment.

WARNING

HOT SURFACE WARNING. Indicates information important to the handling of equipment and parts. Failure to observe caution could result in personal injury.

In addition to the warnings and cautions in this manual, use the following guidelines for safe operation of the unit.

- Read all instructions before using equipment.
- For your safety, the equipment is furnished with a properly grounded cord connector. Do not attempt to defeat the grounded connector.
- Install or locate the equipment only for its intended use as described in this manual. Do not use corrosive chemicals in this equipment.
- Do not operate this equipment if it has a damaged cord or plug, if it is not working properly, or if it has been damaged or dropped.
- This equipment should be serviced by qualified personnel only. Contact the nearest Roundup authorized service facility for adjustment or repair.
- Do not block or cover any openings on the unit.
- Do not immerse cord or plug in water.
- Keep cord away from heated surfaces.
- Do not allow cord to hang over edge of table or counter.

The following warnings and cautions appear throughout this manual and should be carefully observed.

- **Turn the unit off, disconnect the power source and allow unit to cool down before performing any service or maintenance on the unit.**
- **The procedures in this chapter may include the use of chemical products. These chemical products will be highlighted with bold face letters followed by the abbreviated HCS (Hazard Communication Standard). See Hazard Communication Standard manual for the appropriated Material Safety Data Sheets (MSDS).**
- **The equipment should be grounded according to local electrical codes to prevent the possibility of electrical shock. It requires a grounded receptacle with separate electrical lines, protected by fuses or circuit breaker of the proper rating.**
- **Bread may burn. Therefore toasters must not be used near or below curtains or other combustible walls and materials. Failure to maintain safe operating distances may cause discoloration or combustion.**

IMPORTANT SAFETY INFORMATION (continued)

- **When installing conveyor belt wrap, be careful not to wrap it over the upper and lower support rods or permanent damage to belt will occur. Make sure belt wrap is positioned UNDER the upper and lower support rods.**
- **Make sure both ends of belt wrap are aligned evenly before installing belt wrap pin.**
- **Failure to use release sheets may result in damage to the equipment and loss of warranty coverage.**
- **All electrical connections must be in accordance with local electrical codes and any other applicable codes.**
- **WARNING ELECTRICAL SHOCK HAZARD. FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.**
  - **Electrical ground is required on this appliance.**
  - **Do not modify the power supply cord plug. If it does not fit the outlet, have a proper outlet installed by a qualified electrician.**
  - **Do not use an extension cord with this appliance.**
  - **Check with a qualified electrician if you are in doubt as to whether the appliance is properly grounded.**

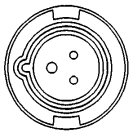
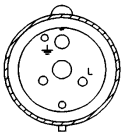
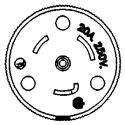
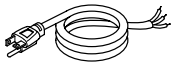
IMPORTANT! Keep these instructions for future reference. If the unit changes ownership, be sure this manual accompanies the equipment.

SPECIFICATIONS

Electrical Ratings

Voltage	Watts	Amps	Hertz
208	4185	20.1	50/60
220	4682	21.3	50/60
240	5570	23.2	50/60

Electrical Cord & Plug Configurations

Letter Code*	Description	Configuration
D	Pin & Sleeve 30 Amp, 250 VAC	
I	International Pin & Sleeve IEC-309 32 Amp, 230 VAC	
R	Right Angle Twist Lock 30 Amp, 250 VAC	
S	Straight Twist Lock 30 Amp, 250 VAC	
C R H	Commercial Cord Rockbestos Cord Harmonized Cord	

** Used in Model Designation*

⚠ CAUTION ⚠

All electrical connections must be in accordance with local electrical codes and any other applicable codes.

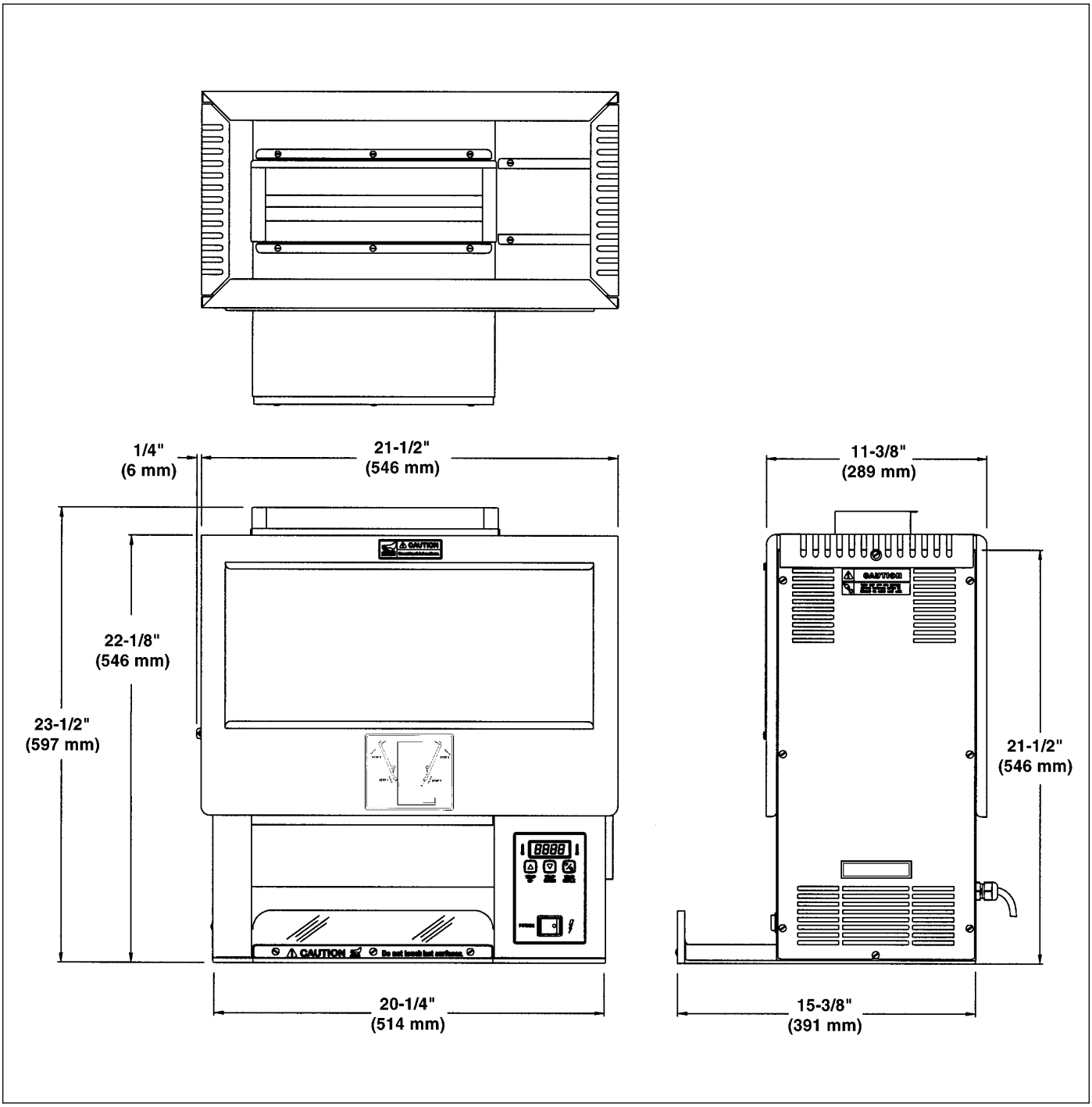
⚠ WARNING ⚠

ELECTRICAL SHOCK HAZARD. FAILURE TO FOLLOW THE INSTRUCTIONS IN THIS MANUAL COULD RESULT IN SERIOUS INJURY OR DEATH.

- **Electrical ground is required on this appliance.**
- **Do not modify the power supply cord plug. If it does not fit the outlet, have a proper outlet installed by a qualified electrician.**
- **Do not use an extension cord with this appliance.**
- **Check with a qualified electrician if you are in doubt as to whether the appliance is properly grounded.**

SPECIFICATIONS (continued)

Dimensions



INSTALLATION

Unpacking

1. Remove unit and all packing materials from shipping carton.
2. Open the large box (P/N 0011297). It should contain the following:
   - bun chute (Figure 1)
   - bun feeder (Figure 4)
   - plastic bag containing the release sheet (Figure 4)
3. Remove all packing materials and protective coverings from the unit and parts.

NOTE: If any parts are missing or damaged, contact Antunes Technical Service IMMEDIATELY at 1-877-392-7854

Assembling the Unit

1. Install the bun chute (Figure 1).
2. Remove the release sheet from the plastic bag and lay it on a clean, flat surface. Fold the sheet *exactly* in half (Figure 3).
3. Crease the sheet at the fold using only your finger (Figure 3).

NOTE: Do not use metal tools to crease the sheet.

4. Install the release sheet by draping it over both sides of the platen surface. The crease should be centered directly on top of the platen (Figure 4).

⚠ CAUTION ⚠
Failure to use release sheets may result in damage to the unit and loss of warranty coverage.

5. Install the bun feeder. The bun feeder pins fit over the tip of the platen and retain the release sheet (Figure 4).

NOTE: Check the release sheet to make sure it is not caught in the conveyor. Additional release sheets can be obtained through your authorized service agency under part no. 7000110 (3 pack) or 7000111 (10 pack).

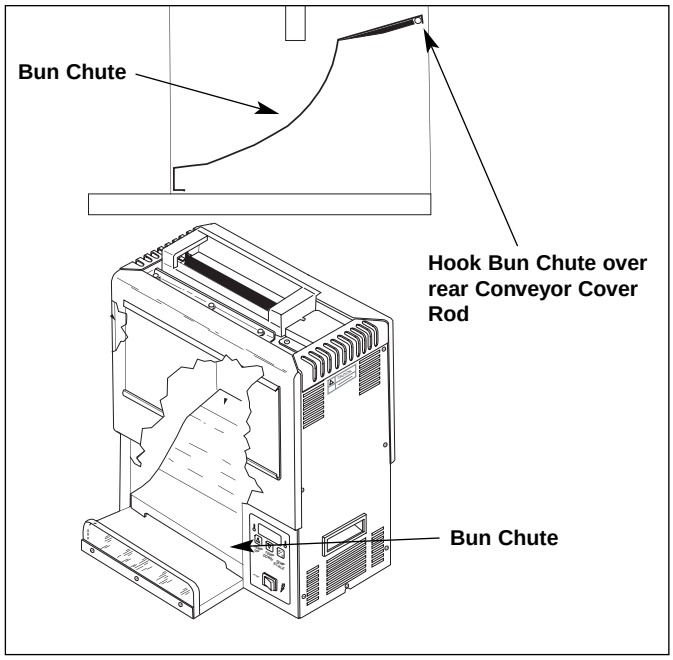


Figure 1. Installing Bun Chute

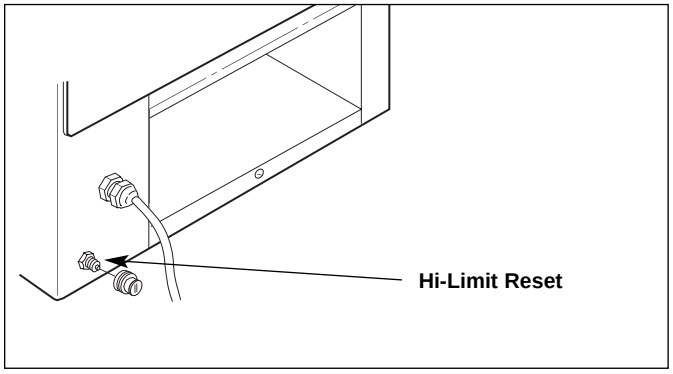


Figure 2. Hi-Limit Reset

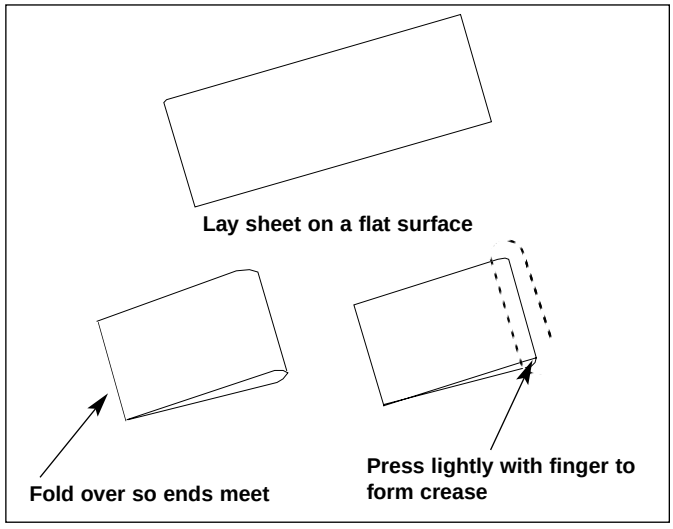


Figure 3. Folding Release Sheet

INSTALLATION (continued)

Location

When placing the toaster into service, pay attention to the following guidelines.

- Make sure power to the unit is off and the toaster is at room temperature.
- Do not block or cover any openings on the unit.
- Do not immerse cord or plug in water.
- Keep cord away from heated surfaces.
- Do not allow cord to hang over edge of table or counter.

Connect the unit to the power supply. Refer to the specification plate for the proper voltage.

⚠ CAUTION ⚠

All electrical connections must be in accordance with local electrical codes and any other applicable codes.

⚠ CAUTION ⚠

Bread may burn. Therefore toasters must not be used near or below curtains or other combustible walls and materials. Failure to maintain safe operating distances may cause discoloration or combustion.

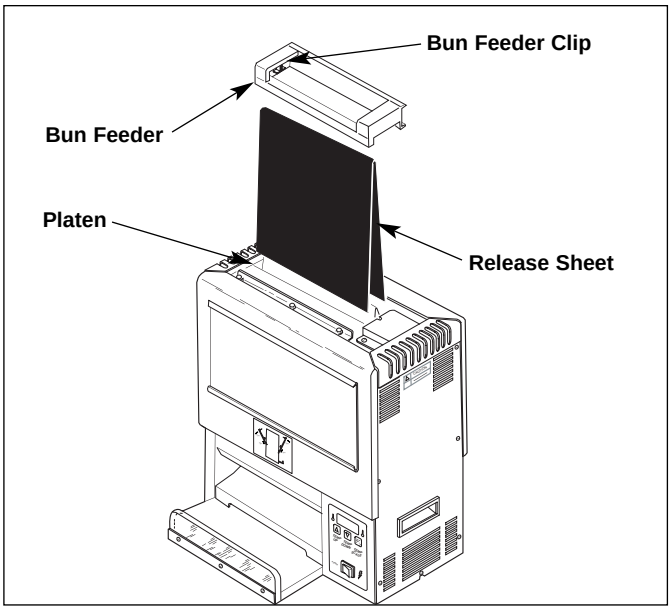


Figure 4. Installing Release Sheet

⚠ WARNING ⚠

ELECTRICAL SHOCK HAZARD. FAILURE TO FOLLOW THE INSTRUCTIONS IN THIS MANUAL COULD RESULT IN SERIOUS INJURY OR DEATH.

- **Electrical ground is required on this appliance.**
- **Do not modify the power supply cord plug. If it does not fit the outlet, have a proper outlet installed by a qualified electrician.**
- **Do not use an extension cord with this appliance.**
- **The toaster should be grounded according to local electrical codes to prevent the possibility of electrical shock. It requires a grounded receptacle with separate electrical lines, protected by fuses or circuit breaker of the proper rating.**
- **Check with a qualified electrician if you are in doubt as to whether the appliance is properly grounded.**

OPERATION

Operating Instructions

1. Set the bun adjustment controls (Figure 6) as follows:
   - Set Crown control to 3 = 11/16" (17.4 mm).
   - Set Heel/Club control to B = 7/16" (11.1 mm).

NOTE: After initial run of 4-6 buns, adjust controls according to the desired finished product.

2. Turn the rocker switch on (Figure 5). Allow 30 minutes warm-up time before proceeding.

NOTE: The temperature display (Figure 5) will flash "LO" until preset operating temperature is reached. When the toaster approaches the preset temperature of 520°F (271°C), "USE" will appear in the temperature display and the unit is ready to toast buns.

The toaster is tested and shipped with the heaters set at a preset recommended temperature. If "USE" does not appear in the window after warm-up period, see Temperature Adjustments below for recommended temperature settings and to adjust temperature settings.

3. Drop buns into toaster (Figure 5). Cut sides of heel and crown must face each other (heel/club in front, crown in back).
4. Toasted product will drop into the bun landing area (Figure 5).
5. Test at least 4 buns before putting toaster into service.
6. Turn the rocker switch off when finished toasting.

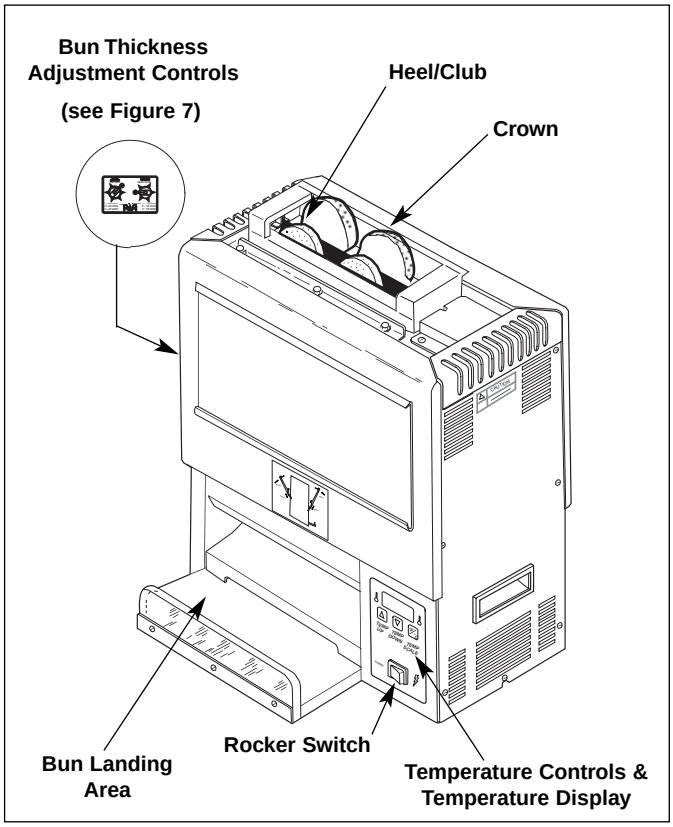


Figure 5. VCT-200 Toaster

Temperature Adjustments

The VCT-200 uses a platen heater and two auxiliary heaters. The platen heater consists of a heating coil built into the platen to toast the cut side of the bun. The two auxiliary heaters assist in providing additional heat to the buns. The first auxiliary heater is located between the conveyor in the front of the toaster. The second auxiliary heater is located between the conveyor and the rear of the unit.

RECOMMENDED TEMPERATURES

Recommended temperature setting for the platen heater is 560°F (293°C).

Recommended temperature setting for the auxiliary heaters is 400°F (204°C).

NOTE: The toaster is tested and shipped with the heaters set at the above recommended temperatures.

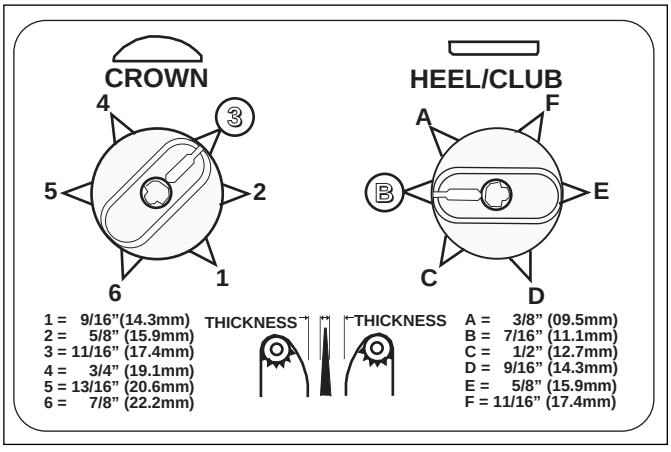


Figure 6. Bun Thickness Adjustment Controls

OPERATION (continued)

TEMPERATURE CONTROL PANEL

NOTE: Setpoint Temperature refers to the desired temperature setting.

Pressing the TEMP UP key will display the current platen heater temperature provided the platen temperature is over 400°F (204°C).

Pressing the TEMP DOWN key will display the current auxiliary heaters temperature providing the auxiliary heaters temperature is over 300°F (148°C).

Pressing and holding TEMP SCALE key for 3-5 seconds will switch the temperature display between Fahrenheit (°F) and Celsius (°C).

PLATEN HEATER TEMPERATURE ADJUSTMENT

1. Turn rocker switch on and wait for temperature display to finish the power up sequence (Figure 7).
2. Press and hold both TEMP UP and TEMP DOWN keys for over 1 second until the display flashes the setpoint temperature, then release (Figure 8).
3. Press the TEMP UP key to raise the setpoint temperature or press the TEMP DOWN key to lower the setpoint temperature. The setpoint temperature will adjust 1° every 0.1 seconds.
4. Release the key when the desired setpoint is displayed.

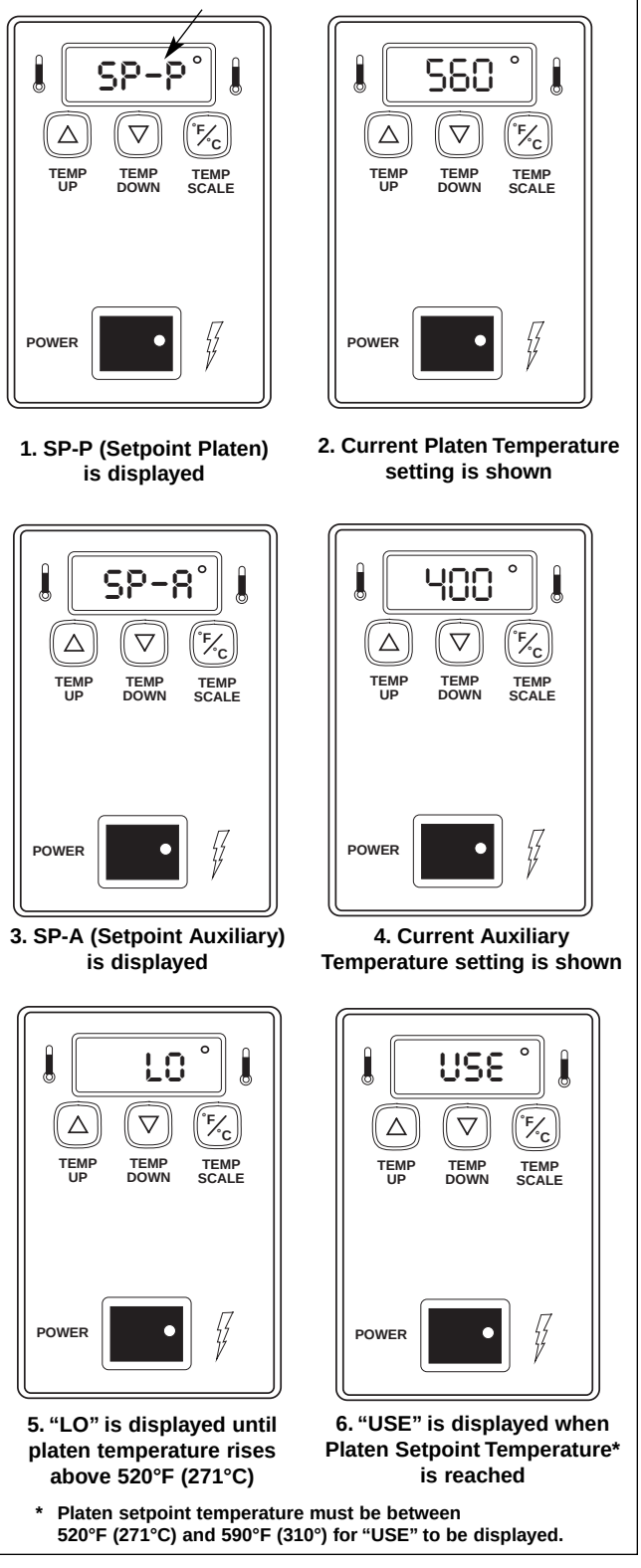
NOTE: Maximum adjustable setpoint temperature for the platen is 570°F (298°C).

NOTE: If no change is made within 5 seconds, the display will revert back to the previous setpoint.

AUXILIARY HEATER TEMPERATURE ADJUSTMENT

1. Turn rocker switch on and wait for temperature display to finish the power up sequence (Figure 7).
2. Press and hold both TEMP UP and TEMP SCALE keys for over 1 second until the display flashes the setpoint temperature, then release (Figure 9).
3. Press the TEMP UP key to raise the setpoint temperature or press the TEMP DOWN key to lower the setpoint temperature. The setpoint temperature will adjust 1° every 0.5 seconds. Continuing to depress the key for over two consecutive seconds will increase the adjustment speed 1° every 0.1 seconds.
4. Release the key when the desired setpoint is displayed.

"Heat On" LED will blink on/off during warm-up and when either platen or auxiliary heaters are calling for heat.



1. SP-P (Setpoint Platen) is displayed

2. Current Platen Temperature setting is shown

3. SP-A (Setpoint Auxiliary) is displayed

4. Current Auxiliary Temperature setting is shown

5. "LO" is displayed until platen temperature rises above 520°F (271°C)

6. "USE" is displayed when Platen Setpoint Temperature* is reached

*** Platen setpoint temperature must be between 520°F (271°C) and 590°F (310°) for "USE" to be displayed.**

FIGURE 7. TEMPERATURE POWER UP SEQUENCE

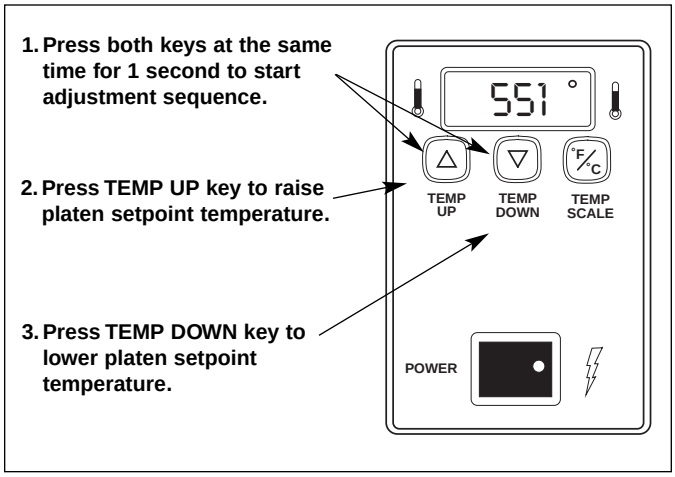

1. Press both keys at the same time for 1 second to start adjustment sequence.
2. Press TEMP UP key to raise platen setpoint temperature.
3. Press TEMP DOWN key to lower platen setpoint temperature.
551 °
TEMP UP
TEMP DOWN
TEMP SCALE
POWER

Figure 8. Adjusting Platen Heater Temperature Setpoint

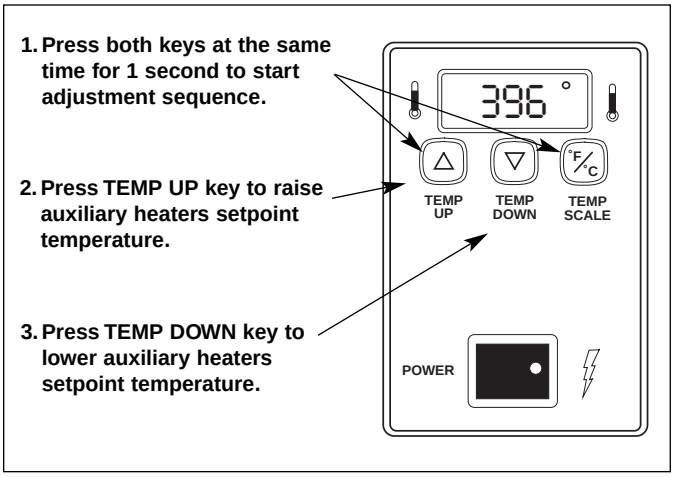

1. Press both keys at the same time for 1 second to start adjustment sequence.
2. Press TEMP UP key to raise auxiliary heaters setpoint temperature.
3. Press TEMP DOWN key to lower auxiliary heaters setpoint temperature.
396 °
TEMP UP
TEMP DOWN
TEMP SCALE
POWER

Figure 9. Adjusting Auxiliary Heaters Temperature Setpoint

NOTE: Maximum adjustable setpoint temperature for the auxiliary heater is 400°F (204°C).

NOTE: If no change is made within 5 seconds, the display will revert back to the previous setpoint.

Safety Features

HI-LIMIT RESET BUTTON

A hi-limit thermostat will turn off electrical power to the heater and control circuits if the unit overheats. To reset this thermostat, allow sufficient time (10-15 minutes) for the unit to cool down, then depress the reset button located on the rear of the unit (Figure 2).

If the unit requires continuous resetting, contact your Roundup authorized service agency.

FAULT MESSAGES

- If the platen thermocouple is disconnected or "open", the display will read "HI" and the platen heating circuit will turn off (Figure 10). The platen thermocouple must be reattached or replaced.
- If the platen heater temperature exceeds 591°F (310°C) the display will read "HI" and the heating circuit will turn off (Figure 10). After the toaster has cooled down, the unit must be turned off, then back on to restart. If this condition repeats, contact your Roundup authorized service agency.
- If the auxiliary heating temperature exceeds 420°F (215°C) the display will alternately flash "HI" and "USE" (Figure 10). The heating circuit will not turn off. After the toaster has cooled down, the unit must be turned off, then back on to restart. If this condition repeats, contact your Roundup authorized service agency.

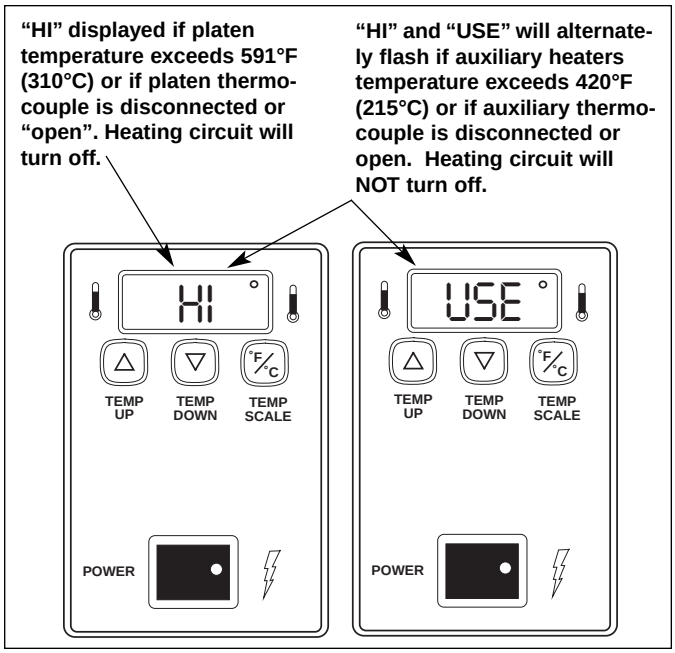

"HI" displayed if platen temperature exceeds 591°F (310°C) or if platen thermocouple is disconnected or "open". Heating circuit will turn off.
"HI" and "USE" will alternately flash if auxiliary heaters temperature exceeds 420°F (215°C) or if auxiliary thermocouple is disconnected or open. Heating circuit will NOT turn off.
HI °
USE °
TEMP UP
TEMP DOWN
TEMP SCALE
POWER

Figure 10. "HI" Fault Message

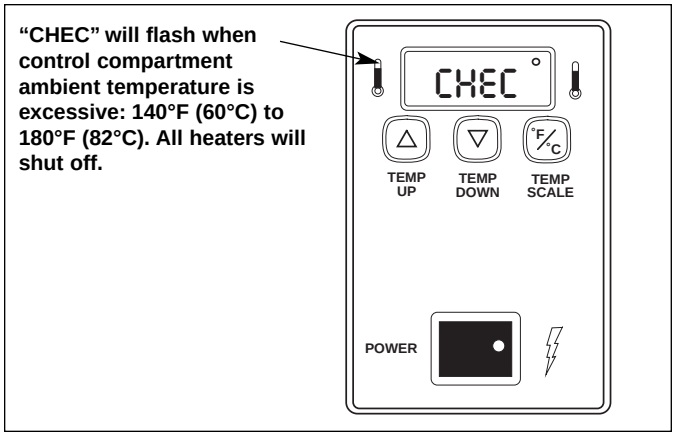

"CHEC" will flash when control compartment ambient temperature is excessive: 140°F (60°C) to 180°F (82°C). All heaters will shut off.
CHEC °
TEMP UP
TEMP DOWN
TEMP SCALE
POWER

Figure 11. "CHEC" Fault Message

OPERATION (continued)

FAULT MESSAGES (continued)

- The temperature controller has an ambient temperature sensor that will shut off all heating circuits if the control compartment ambient temperature becomes excessive: 140°F (60°C) to 180°F (82°C).

  When this occurs, the temperature display will flash "CHEC" (Figure 11). To restart the unit, ambient temperature must drop to 140°F (60°C) and the unit must be turned off, then back on.

- If incoming power drops below 190 Volts, the toaster will shut down and the display will read "PO" (Figure 12). To reset, power supply must be over 190 Volts, then the unit must be turned off and back on.

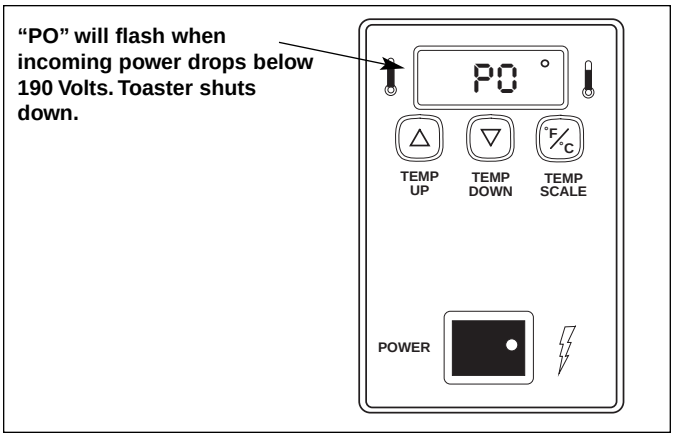


Figure 12. "PO" Fault Message

MAINTENANCE

⚠ WARNING ⚠

Turn the unit off, disconnect the power source and allow the unit to cool down before performing any service or maintenance on the unit.

Daily cleaning

1. Turn off rocker switch, unplug the power cord and allow the unit to cool down before proceeding.
2. Remove the bun feeder, front (heel) conveyor cover, rear (crown) conveyor cover, bun chute and lower rear cover (early models only) (Figure 1). Wipe parts with a clean, sanitized towel.
3. **Remove the black release sheet (Figure 5) and wipe with clean towel and APSC.**
4. Wipe unit with clean towel and APSC.
5. **Wipe exterior of Groovy Belt with clean towel and APSC. Make sure to rotate Groovy Belt to clean the entire exterior surface.**

NOTE: Do not remove belt from toaster to clean.

6. Install the release sheet.
7. Install the front (heel) conveyor cover, rear (crown) conveyor cover as shown in Figure 14. Place slots of the bottom inner cover over the lower yellow colored conveyor rod.

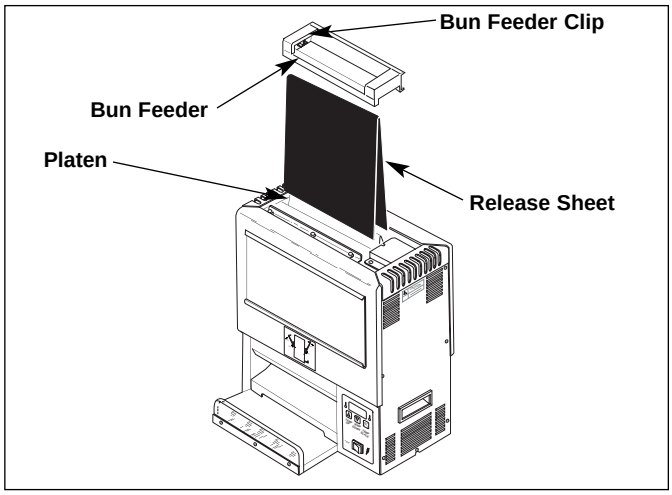


Figure 13. Removing/Installing Release Sheet

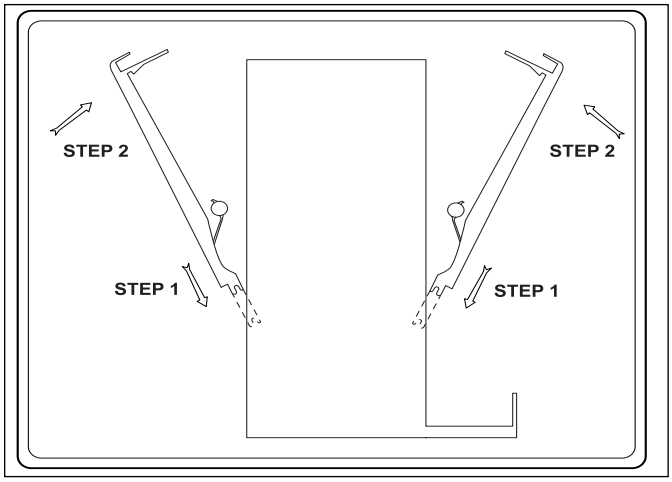


Figure 14. Conveyor Cover Installation

8. Push and slightly lift the cover so the top cover slots slide over the top yellow colored conveyor rods and latch into place.

9. Install bun chute and bun feeder.

NOTE: Make sure <u>both</u> conveyor safety interlock switches are activated (depressed) when the covers are installed (Figures 15 & 20) or conveyors will not rotate.

NOTE: Check the release sheet to make sure it is not caught in the conveyor. Additional release sheets can be obtained through your authorized service agency under part no. 7000110 (3 pack) or 7000111 (10 pack).

Every 3 Months – Change the Release Sheet and Groovy Belt Wraps

GENERAL

In order to obtain the maximum life from the Groovy Belt Wrap, other related Rapid Toaster parts must be in good operating condition.

PRE-INSTALLATION

- Clean the stainless steel wire conveyor belts thoroughly with all-purpose cleaner (APSC) and dry completely.
- Check the stainless steel wire conveyor belts for stretching (excess slack).
- Check that one roller tensioner is on the conveyor cover and that:
  - it pivots freely,
  - it is not bent or worn,
  - has side-to-side play.

NOTE: If roller tensioner is bent, order P/N 0011311 (Qty. 1) or P/N 7000186 (Pkg. of 2) from your local authorized service agency.

REPLACING RELEASE SHEET AND GROOVY BELT WRAPS

1. Turn off rocker switch, unplug the power cord and allow the unit to cool down before proceeding.
2. Remove the Bun Feeder, Front (heel) Conveyor Cover, Rear (crown) Conveyor Cover, Bun Chute (Figure 15).

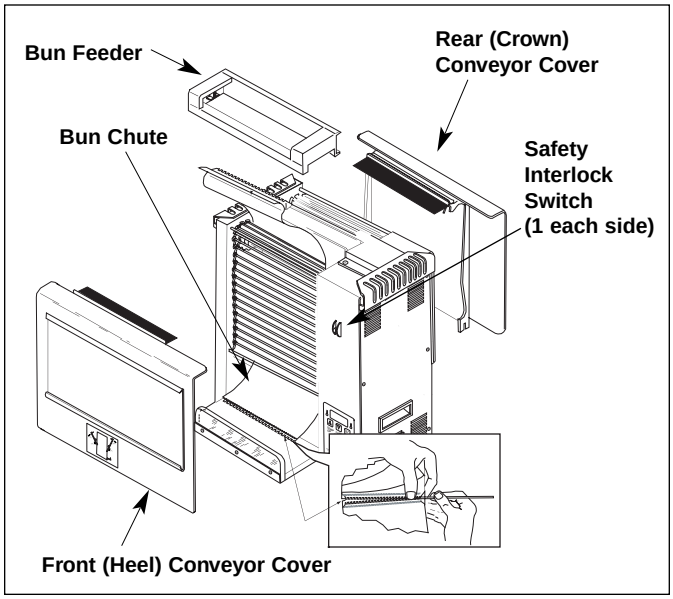


Figure 15. Changing Groovy Belt

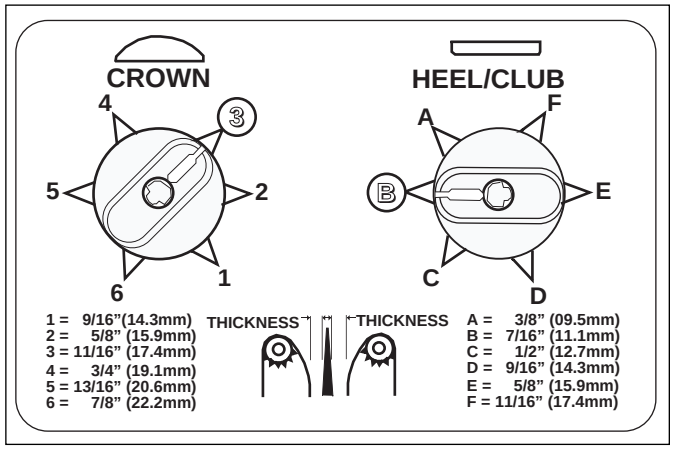


Figure 16. Bun Thickness Adjustment Controls

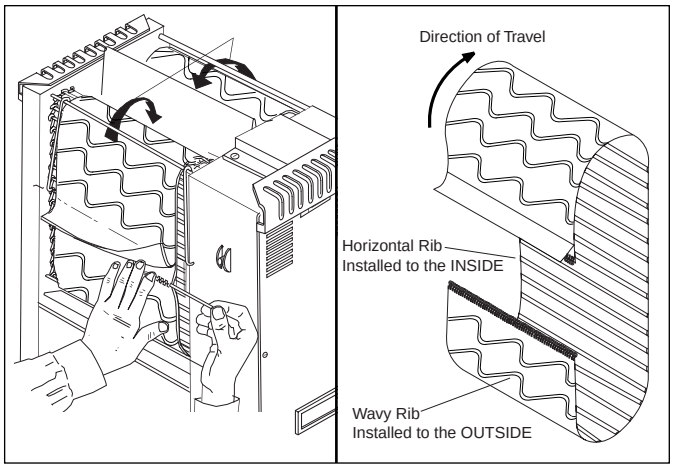


Figure 17. Correct Groovy Belt Wrap Installation

MAINTENANCE (continued)

3. Turn bun compression Control Knobs to “6” and “F” (Figure 16).
4. Move red belt wraps until connecting hinge is exposed and centered, then remove both front and rear belt wraps (Figure 15).
5. The Groovy Belt Wraps are not reversible and must be installed properly in order to work correctly (Figure 17). The flap, which covers the connecting hinge, is located on the wavy side of the belt wrap. The wavy ribbed side should be installed facing the outside/bun side. The straight ribbed side should be facing towards the inside to contact the wire conveyor. The flap should be on the upper side of the hinge as shown.
6. Install the belt as shown in Figures 18 & 19.

⚠ CAUTION ⚠

Be sure conveyor belt wrap is positioned UNDER the upper and lower support rods or damage to the unit will occur.

⚠ CAUTION ⚠

Be sure conveyor belt wrap ends are aligned as shown in Figure 19 or damage to the unit will occur.

7. Set bun compression control knobs to “3” and “B” (Figure 16).
8. Install a new release sheet (Figure 13).
9. Install the front (heel) conveyor cover, rear (crown) conveyor cover as shown in Figure 14. Place slots of the bottom inner cover over the lower yellow colored conveyor rod.
10. Push the cover so the top cover slots slide over the top yellow colored conveyor rods and latch into place.
11. Install bun chute, bun feeder and lower rear cover (early models only) (Figure 15).

NOTE: Make sure <u>both</u> conveyor safety interlock switches are activated (depressed) when the covers are installed (Figures 20) or conveyors will not rotate.

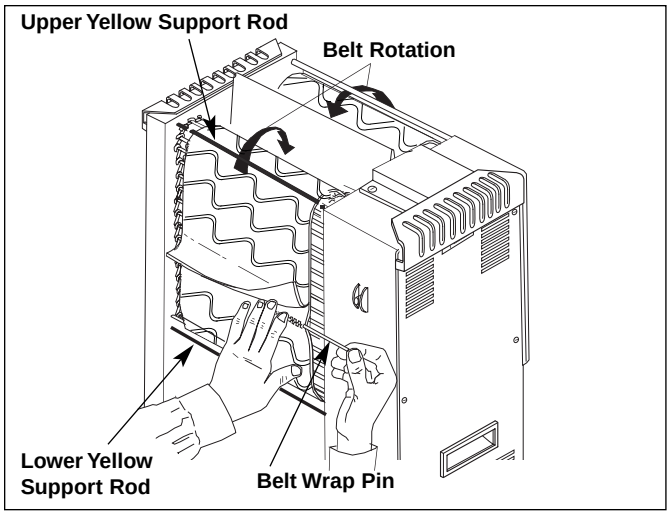


Figure 18. Installing Groovy Belt

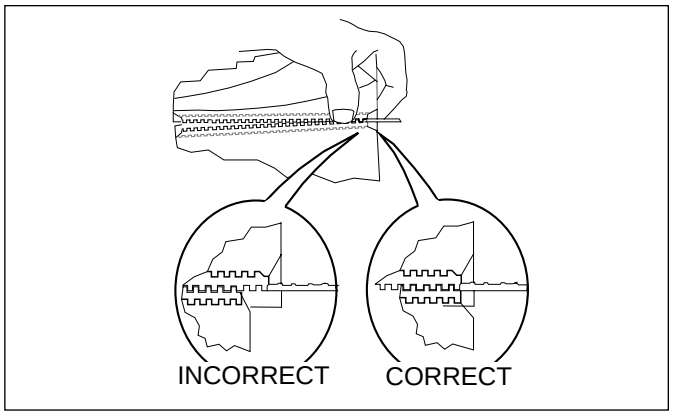


Figure 19. Aligning Belt Teeth

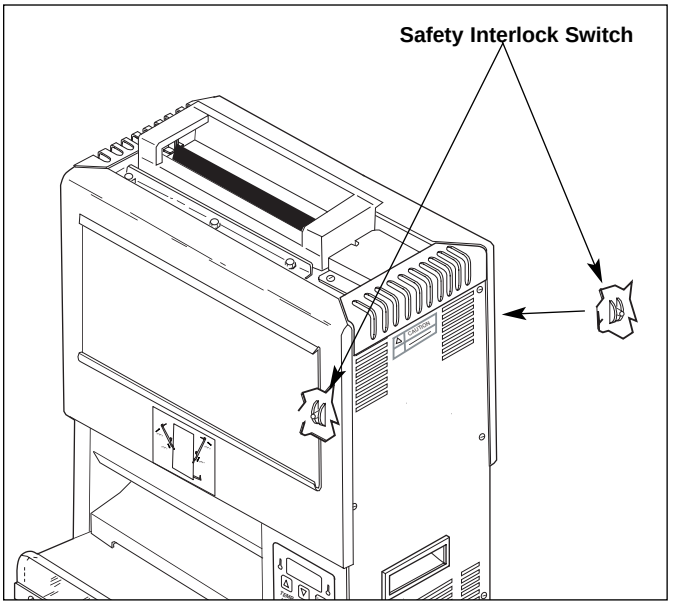


Figure 20. Conveyor Safety Interlock Switches

Servicing Stainless Steel Wire Conveyor Belts

After a period of time, the conveyor links will wear and the conveyor belt will stretch. This will eventually cause the conveyor to jam as it rotates on the sprockets. This is easily remedied by removing one or more conveyor links from each side of the belt.

NOTE: This is not covered under warranty. It is a user responsibility.

When new, front conveyor has 37 large links and 4 small links (41 total); rear conveyor has 38 large links, 2 small links (40 total).

1. Perform steps 1 - 4 under *Replacing Release Sheet and Groovy Belt Wraps* on pages 13-14.
2. Disconnect the conveyor belt by squeezing any two links together and unhooking both ends of one link (Figure 21).
3. To shorten a stretched conveyor belt, remove one 1/2" link from the belt.
4. Reconnect by hooking both ends of the belt back together.

NOTE: If the belt is too short to be reassembled, remove an additional 1/2" link and install a 3/4" link. This will shorten the belt 1/4" overall.

Replacing Stainless Steel Wire Conveyor Belts

1. Perform steps 1 - 4 under *Replacing Release Sheet and Groovy Belt Wraps* on pages 13-14.
2. Disconnect the conveyor belt by squeezing any two links together and unhooking both ends of one link (Figure 21).
3. Place replacement conveyor belt on top sprockets. Check for correct positioning (Figure 21).

NOTE: Install conveyor belt so that the ends of the hooks are facing down.

4. Wrap conveyor belt around lower sprockets and connect by hooking both ends of the belt back together.
5. Perform steps 5 - 11 under *Replacing Release Sheet and Groovy Belt Wraps* on pages 13-14.

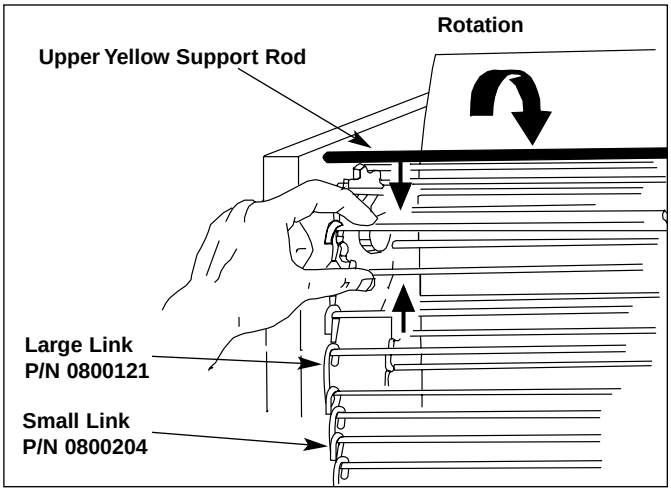


Figure 21. Removing Conveyor Belt

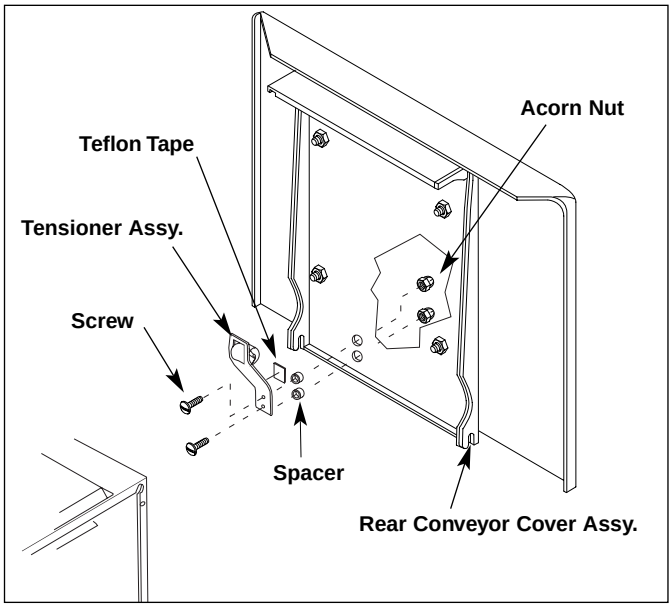


Figure 22. Replacing Roller Tensioner Assy.

Replacing Roller Tensioner Assemblies

1. Remove screw from acorn nut (Figure 22).
2. Remove old roller tensioner assy.
3. Replace tensioner assy. and reassemble.
4. Make sure the spacers are placed inside the tensioner arm. The spacers are smaller than the holes to allow the tensioner to pivot freely.

MAINTENANCE (continued)

Replacing Conveyor Motor and Fan Blade

NOTE: A small amount of Loctite (Blue & Red) is required for proper gear motor installation.

1. Remove control cover.
2. Disconnect the motor wires and remove the drive motor and drive motor bracket (Figure 23). Discard the 8-32 x 5/16" mounting bracket screws.
3. Remove the motor sprocket using a hex wrench.
4. Remove the drive motor bracket from the gear motor. Save the four 10-32 x 3/8" pan head screws (P/N 310P154).
5. Place one drop of Loctite (Blue) into each threaded hole in the gear reducer casting. Attach the drive motor bracket to the gear reducer using the original four 10-32 x 3/8" screws (310P154) removed in step 3.
6. Attach the motor sprocket to the gear reducer as shown in Figure 23.

NOTE: Be sure sprocket setscrew is positioned on the flat of the gear reducer shaft. Maintain the 3/16" dimension as shown in Figure 24. Apply Loctite (Blue) to threads of setscrew and tighten securely.

7. Using the four new 8-32 x 5/16" stainless steel SEMS truss head screws (P/N 308P151), attach the drive motor bracket to the mounting bracket. DO NOT tighten screws at this time.
8. Place the drive chain on the sprocket and push down on motor. Allow 1/4" (0.6 mm) play at middle of drive chain, then tighten mounting screws while holding motor. Check drive chain play after tightening screws.
9. Re-connect motor wires, one at a time.
10. Re-install control cover.

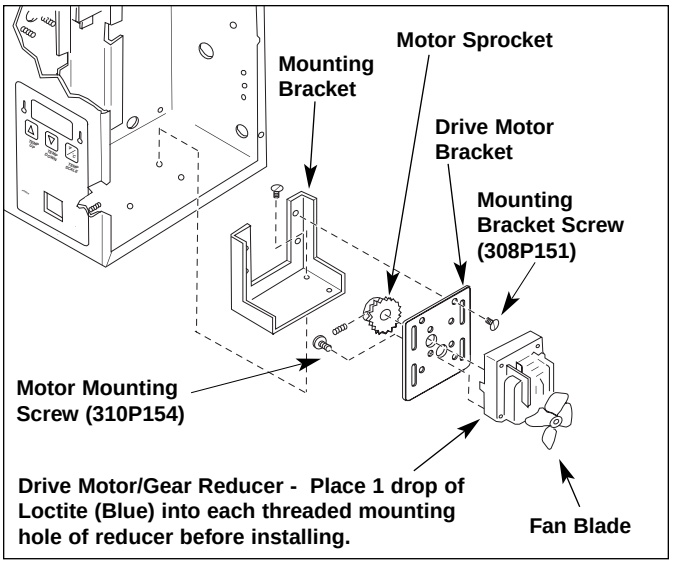

Motor Sprocket
Mounting Bracket
Drive Motor Bracket
Mounting Bracket Screw (308P151)
Motor Mounting Screw (310P154)
Drive Motor/Gear Reducer - Place 1 drop of Loctite (Blue) into each threaded mounting hole of reducer before installing.
Fan Blade

Figure 23. Replacing Drive Motor and Fan Blade

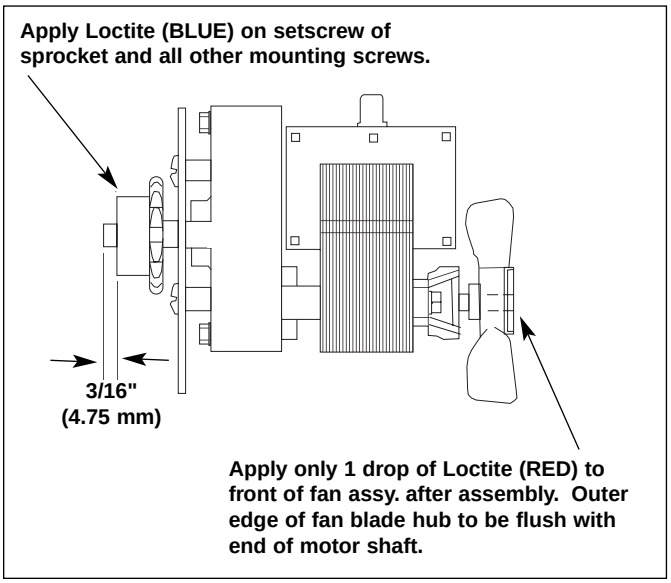

Apply Loctite (BLUE) on setscrew of sprocket and all other mounting screws.
3/16" (4.75 mm)
Apply only 1 drop of Loctite (RED) to front of fan assy. after assembly. Outer edge of fan blade hub to be flush with end of motor shaft.

Figure 24. Replacing Drive Motor and Fan Blade

TROUBLESHOOTING

⚠ WARNING ⚠

To avoid possible personal injury and/or damage to the unit, inspection, test and repair of electrical equipment should be performed by qualified service personnel. The unit should be unplugged when servicing, except when electrical tests are required. Use extreme care during electrical circuit tests. Live circuits will be exposed.

Problem	Possible Cause	Corrective Action
No heat and conveyor belts do not move.	Toaster is installed incorrectly.	Perform installation and operating procedures (pages 7-12).
	Not enough voltage, defective power cord, defective rocker switch.	Check receptacle for correct voltage. See *Specifications* (page 5). With unit plugged in and rocker switch on, check for correct voltage into rocker switch. If low or zero voltage, replace power cord. If voltage is correct, check for correct voltage out of rocker switch. If low or no voltage, replace rocker switch.
	Hi-limit switch tripped open.	Reset hi-limit switch (Fig. 2, page 7).
	Wiring problem.	Check all electrical connections for burns, discoloration or arcing. Replace all connections or components with damaged terminals. Replace all damaged wiring with the same (or higher) rated wire.
No heat and conveyor belts move.	Wiring problem.	Check all electrical connections for burns, discoloration or arcing. Replace all connections or components with damaged terminals. Replace all damaged wiring with the same (or higher) rated wire.
	Inoperative temperature display control or platen.	To check temperature display control, allow unit to warm up for 30 minutes, then: 1. Check platen temperature at the center of platen (with conveyor belt wrap, conveyor belt, tensioners and release sheet removed). Use a pyrometer to confirm temperature readings. 2. After platen temperature reaches a maximum of **559°-561°F (292°-293°C)** and auxiliary heaters reach a maximum of **399°-401°F (203°-205°C)**, and the temperature begins to drop, the heat indicator light on the temperature control board should turn on. If test readings do not agree with these figures, replace temperature display control.

Problem	Possible Cause	Corrective Action
No heat and conveyor belts move (continued).	Inoperative temperature display control or platen (continued).	To check platen: Use an Ohm meter to test resistance of the platen heater (disconnect 1 wire to isolate heater). Correct cold resistance for top two heating elements of platen is 62.7 Ohms at 208V/725 Watts. Bottom two element should be 69.9 Ohms at 208V/650 Watts. The auxiliary heaters are 61.9 Ohms at 208V/700 Watts.
	Ambient temperature in control compartment too high.	"CHEC" is showing in temperature display. Turn toaster off and allow control compartment to cool down to 140°F (60°C) and restart toaster. Be sure cooling fan is operating and nothing is blocking the flow of cooling air to bottom of toaster.
Platen is hot and conveyor belts do not move.	Toaster is installed incorrectly.	Perform installation and operating procedures (pages 7-12).
	Wiring problems.	Check all electrical connections for burns, discoloration or arcing. Replace all connections or components with damaged terminals. Replace all damaged wiring with the same (or higher) rated wire.
	Drive motor inoperable.	To check drive motor: 1. Measure resistance of motor coil. Replace motor if coil measures either open circuit or zero resistance. 2. If 208/240 Vac is measured across coil but output shaft does not turn, replace motor.
	Broken drive chain or loose motor sprocket.	Check drive chain for kinks, broken or bent links or other damage. Check motor sprocket and drive sprockets (on drive shaft); tighten setscrew on flat of shaft if required. Check for damaged/worn sprockets and replace as required.
	Conveyor cover assy(s). not installed.	Install conveyor cover assy(s).
	Conveyor belts installed incorrectly.	Install conveyor belt to match diagram in Fig. 21 (page 15). Be sure that ends of the hooks are facing down.
	One or both conveyor interlock switches not depressed by conveyor covers.	Install conveyor cover assy. correctly. (Fig. 20, page 14).
	Roller tensioner assy. or tensioner bent or missing.	Replace roller tensioner assy(s). (33, page 32) or tensioners (6 or 7, page 28) if damaged or loose.

Problem	Possible Cause	Corrective Action
Platen is hot and conveyor belts do not move (continued).	Roller tensioner assy. or tensioner bent or missing (continued).	Replace slide rails (45, page 28) or slide bars (82, page 28) if worn or missing.
	Conveyor belt too loose (excess slack) or missing links When new, front conveyor has 37 large links and 4 small links (41 total); rear conveyor has 38 large links, 2 small links (40 total).	Remove conveyor belt (page 14). Lay belt flat and count links. Replace entire belt if links are damaged. If conveyor belt has too much play, it will jam. Adjust belt length as described under *Servicing Conveyor Belts* (page 15).
Product is over-toasted or platen heat is too high or drop time is too slow.	Temperature set too high.	Reset platen temperature to 560°F (293°C).
	Bun adjustment controls set incorrectly.	Measure bun thickness and set bun adjustment controls correctly (Fig. 6, page 9).
	Buns sticking on release sheet or conveyor belt wrap.	Clean or replace release sheet or conveyor belt wrap.
	Belt wrap not tacky.	Clean or replace belt wrap.
	Conveyor cover assy(s) not installed.	Install conveyor cover assy(s).
	Conveyor belts installed incorrectly.	Install conveyor belt to match diagram in Fig. 21 (page 15). Be sure that ends of the hooks are facing down.
	Defective temperature display control or defective platen.	To check temperature display control, allow unit to warm up for 30 minutes, then: 1. Check platen temperature at the center of platen (with conveyor belt wrap, conveyor belt, tensioners and release sheet removed). Use a pyrometer to confirm temperature readings. 2. After platen temperature reaches a maximum of **559°-561°F (292°-293°C)** and auxiliary heaters reach a maximum of **399°-401°F (203°-205°C)**, and the temperature begins to drop, the heat indicator light on the temperature control board should turn on. If test readings do not agree with these figures, replace temperature display control. To check platen: Use an Ohm meter to test resistance of the platen heater (disconnect 1 wire to isolate heater). Correct cold resistance for top two heating elements of platen is 62.7 Ohms at 208V/725 Watts. Bottom two element should be 69.9 Ohms at 208V/650 Watts. The auxiliary heaters are 61.9 Ohms at 208V/700 Watts.

Problem	Possible Cause	Corrective Action
Product is over-toasted or platen heat is too high or drop time is too slow. (continued).	Conveyor belt wraps worn and not permitting belt to pull buns across platen in required time.	Follow belt replacement instructions under *Replacing Release Sheet and Groovy Belt Wraps* (pages 13-14).
	Defective drive motor or wrong drive motor.	To check drive motor: 1. Measure resistance of motor coil. Replace motor if coil measures either open circuit or zero resistance. 2. Mark the drive motor sprocket and count the turns per minute. Correct drive motor speed is **nine (9) turns per minute.**
	Defective drive chain or loose sprocket.	Check drive chain for kinks, broken or bent links or other damage. Check motor sprocket and drive sprockets (on drive shaft); tighten setscrew on flat of shaft if required. Check for damaged/worn sprockets and replace as required.
	Wiring problem.	Check all electrical connections for burns, discoloration or arcing. Replace all connections or components with damaged terminals. Replace all damaged wiring with the same (or higher) rated wire.
	Conveyor belt too loose (excess slack) or missing links When new, front conveyor has 37 large links and 4 small links (41 total); rear conveyor has 38 large links, 2 small links (40 total).	Remove conveyor belt (page 15). Lay belt flat and count links. Replace entire belt if links are damaged. If conveyor belt has too much play, it will jam. Adjust belt length as described under *Servicing Conveyor Belts* (page 15).
	Roller tensioner assy(s). or tensioner bent or missing.	Replace roller tensioner assy(s). (33, page 32) or tensioners (6 or 7, page 28) if damaged or loose. Replace slide rails (45, page 28) or slide bars (82, page 28) if worn or missing.
Product is under toasted or platen heat is too low or drop time is too fast.	Bun adjustment controls set incorrectly.	Measure bun thickness and set bun adjustment controls correctly (page 9).
	Not enough voltage, defective power cord, defective rocker switch.	Confirm platen temperature reading with a pyrometer or other temperature source. Check receptacle for correct voltage. See *Specifications* (page 5). With unit plugged in and rocker switch on, check for correct voltage into rocker switch. If low or zero voltage, replace power cord. If voltage is correct, check for correct voltage out of rocker switch. If low or no voltage, replace rocker switch.
	Teflon release sheet is worn.	If release sheet shows signs of wear or discoloration, replace sheet.

Problem	Possible Cause	Corrective Action
Product is under-toasted or platen heat is too low or drop time is too fast (continued).	Wiring problem.	Check all electrical connections for burns, discoloration or arcing. Replace all connections or components with damaged terminals. Replace all damaged wiring with the same (or higher) rated wire.
	Temperature display control or platen inoperative.	To check temperature display control, allow unit to warm up for 30 minutes, then: 1. Check platen temperature at the center of platen (with conveyor belt wrap, conveyor belt, tensioners and release sheet removed). Use a pyrometer to confirm temperature readings. 2. After platen temperature reaches a maximum of **559°-561°F (292°-293°C)** and auxiliary heaters reach a maximum of **399°-401°F (203°-205°C)**, and the temperature begins to drop, the heat indicator light on the temperature control board should turn on. If test readings do not agree with these figures, replace temperature display control. To check platen: Use an Ohm meter to test resistance of the platen heater (disconnect 1 wire to isolate heater). Correct cold resistance for top two heating elements of platen is 62.7 Ohms at 208V/725 Watts. Bottom two element should be 69.9 Ohms at 208V/650 Watts. The auxiliary heaters are 61.9 Ohms at 208V/700 Watts.
	Conveyor drive motor inoperative or incorrect conveyor motor installed in toaster.	To check drive motor: 1. Measure resistance of motor coil. Replace motor if coil measures either open circuit or zero resistance. 2. Mark the drive motor sprocket and count the turns per minute. Correct drive motor speed is **nine (9) turns per minute.**
Product is getting stuck or conveyor belts stop when product is toasting.	Bun adjustment controls set incorrectly.	Measure bun thickness and set bun adjustment controls correctly (pages 13-14).
	Conveyor belt wrap missing or not installed properly.	Install conveyor belt wrap properly (pages 13-14).
	Conveyor belt wrap or release sheet not clean or worn.	Clean or replace respective items. Refer to *Daily Cleaning* (page 12).
	Loose sprocket setscrews.	Check all sprocket screws. Retighten as required.
	Weak drive motor.	Replace drive motor.

Problem	Possible Cause	Corrective Action
Product is getting stuck or conveyor belts stop when product is toasting. (continued).	Not enough voltage, defective power cord or rocker switch.	Check receptacle for correct voltage. See *Specifications* (page 5). With unit plugged in and rocker switch on, check for correct voltage into rocker switch. If low or zero voltage, replace power cord. If voltage is correct, check for correct voltage out of rocker switch. If low or no voltage, replace rocker switch.
	Wiring problem.	Check all electrical connections for burns, discoloration or arcing. Replace all connections or components with damaged terminals. Replace all damaged wiring with the same (or higher) rated wire.
	Conveyor drive motor inoperative or incorrect conveyor motor installed on toaster.	To check drive motor: 1. Measure resistance of motor coil. Replace motor if coil measures either open circuit or zero resistance. 2. Mark the drive motor sprocket and count the turns per minute. Correct drive motor speed is **nine (9) turns per minute.**
	Conveyor drive chain loose, worn or broken. Loose motor drive sprocket.	Check drive chain for kinks, broken or bent links or other damage. Check motor sprocket and drive sprockets (on drive shaft); tighten setscrew on flat of shaft if required. Check for damaged/worn sprockets and replace as required.
	Conveyor cover assy(s). not installed, or improperly installed.	Install conveyor cover assy(s). Make sure covers are activating (depressing) interlock switches (Fig. 20, page 14).
	Conveyor belts installed incorrectly.	Install conveyor belt to match diagram in Fig. 21 (page 15). Be sure that ends of the hooks are facing down.
	Conveyor belt too loose (excess slack) or missing links When new, front conveyor has 37 large links and 4 small links (41 total); rear conveyor has 38 large links, 2 small links (40 total).	Remove conveyor belt (page 15). Lay belt flat and count links. Replace entire belt if links are damaged. If conveyor belt has too much play, it will jam. Adjust belt length as described under *Servicing Conveyor Belts* (page 15).
	Roller tensioner assy(s). or tensioner bent or missing.	Replace roller tensioner assy(s). (33, page 32) or tensioners (6 or 7, page 28) if damaged or loose. Replace slide rails (45, page 28) or slide bars (82, page 28) if worn or missing.

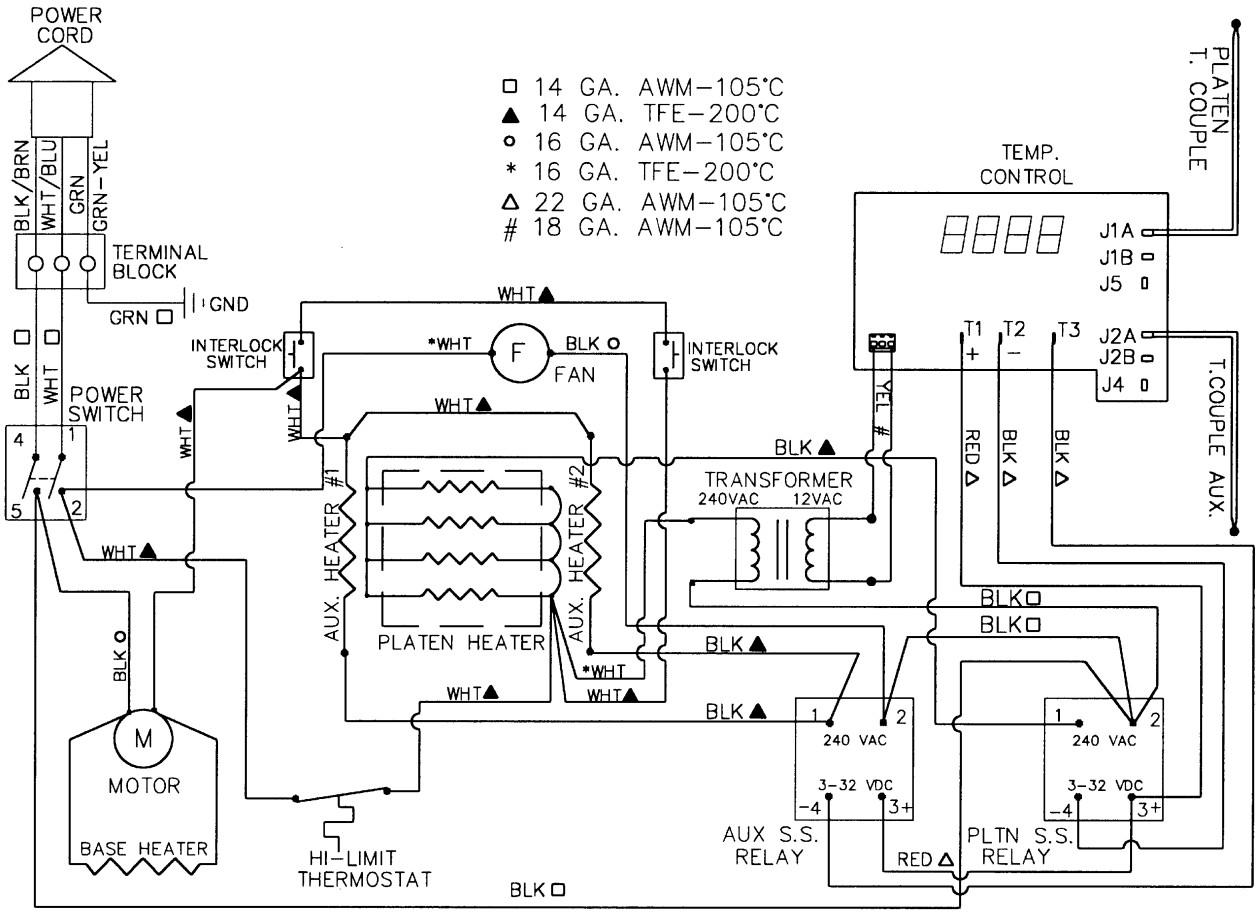
Problem	Possible Cause	Corrective Action
Conveyor belts are "jumping" or "snapping".	Toaster is installed incorrectly.	Perform installation and operating procedures (pages 7-12).
	Bun adjustment controls set incorrectly.	Measure bun thickness and set bun adjustment controls correctly (page 9).
	Conveyor drive motor inoperative or incorrect conveyor motor installed on toaster.	To check drive motor: 1. Measure resistance of motor coil. Replace motor if coil measures either open circuit or zero resistance. 2. Mark the drive motor sprocket and count the turns per minute. Correct drive motor speed is **nine (9) turns per minute.**
	Conveyor drive chain loose, worn or broken. Loose motor drive sprocket.	Check drive chain for kinks, broken or bent links or other damage. Check motor sprocket and drive sprockets (on drive shaft); tighten setscrew on flat of shaft if required. Check for damaged/worn sprockets and replace as required.
	Conveyor belts installed incorrectly.	Install conveyor belt to match diagram in Fig. 21 (page 15). Be sure that ends of the hooks are facing down.
	Conveyor belt too loose (excess slack) or missing links When new, front conveyor has 37 large links and 4 small links (41 total); rear conveyor has 38 large links, 2 small links (40 total).	Remove conveyor belt (page 15). Lay belt flat and count links. Replace entire belt if links are damaged. If conveyor belt has too much play, it will jam. Adjust belt length as described under *Servicing Conveyor Belts* (page 15).
	Roller tensioner assy(s). or tensioner bent or missing.	Replace roller tensioner assy(s). (33, page 32) or tensioners (6 or 7, page 28) if damaged or loose. Replace slide rails (45, page 28) or slide bars (82, page 28) if worn or missing.
Temperature display shows "LO" even after preheated time, buns are not toasting properly or at all.	Platen temperature is below 420°F (126°C).	Allow 20 minutes for warm-up and recheck display.
	Defective platen solid state relay (not closing).	Replace solid state relay.
	Heater platen circuit has an open circuit.	To check platen: Use an Ohm meter to test resistance of the platen heater (disconnect 1 wire to isolate heater). Correct cold resistance for top two heating elements of platen is 62.7 Ohms at 208V/725 Watts. Bottom two element should be 69.9 Ohms at 208V/650 Watts. The auxiliary heaters are 61.9 Ohms at 208V/700 Watts. Check continuity of wiring to and from platen.

Problem	Possible Cause	Corrective Action
Temperature display shows "LO" even after preheated time, buns are not toasting properly or at all (continued).	Defective control board.	Check for 15-20 VDC to platen solid state relay at terminals 3(+) 4(-). If no VDC measured, replace control board.
Temperature display flashes "HI" at cold start.	Inoperable control board.	If platen thermocouple circuit is not "Open", replace control board.
	Platen thermocouple is disconnected or open.	Reattach or replace platen thermocouple.
Temperature display flashes "HI"after it has been reading "USE" for awhile and hi-limit switch trips.	Platen is overheating due to solid state relay shorted closed.	Replace platen solid state relay.
	Platen temperature is over 591°F (310°C).	See *Fault Messages* (pages 11 & 12).
Buns toast fine but temperature display flashes "HI" and "USE" after unit has been preheated.	Inoperable control board.	If relay is not shorted, replace control board.
	Auxiliary thermocouple is disconnected or "open".	Reattach or replace auxiliary thermocouple.
	Inoperable control board.	If auxiliary thermocouple is not "open", replace control board.
Temperature display shows "PO".	Unit is receiving low voltage, below 190 VAC.	Turn rocker switch off, then on. If display shows "PO" again, check power cord, power cord plug and receptacle for damage. Replace as required.
	Control board is defective.	If voltage to unit is proper, replace control board.
Crown and/or heel must be forced into toaster.	Bun feeder improperly installed.	Remove and reposition bun feeder.
	Conveyor belt wrap not tacky.	Clean or replace conveyor belt wrap.
	Crown and/or heel improperly inserted into toaster.	Buns must be inserted with cut faces facing each other; heel in front slot and crown in rear slot.
Conveyor belt wrap does not fit, is difficult to install or is not long enough.	Conveyor belt wrap is installed improperly.	Check to be sure conveyor belt wrap is not placed over upper support rod. Be sure the open end of the flap is away from direction and rotation, and is located toward the outside of the conveyor belt wrap
	Conveyor belt wrap is damaged.	Replace conveyor belt wrap.
The only item that operates is the cooling fan (conveyor and heat inoperable).	Hi-limit switch is tripped open.	Reset hi-limit switch (page11). *NOTE: If hi-limit trips again, contact your authorized service agency for service.*

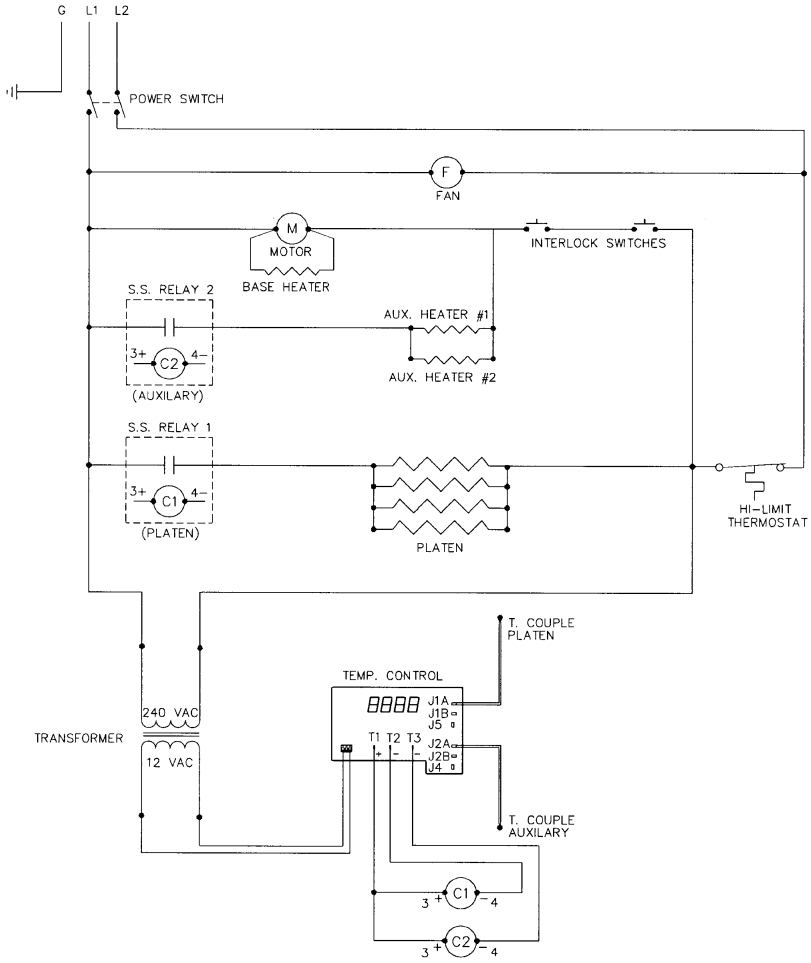
Problem	Possible Cause	Corrective Action
Temperature display flashes “HI” and “LO” at cold startup. After preheat time it flashes “HI” and “USE”.	Auxiliary thermocouple is disconnected or “open”.	Reattach or replace auxiliary thermocouple.
Temperature display flashes “HI” and “USE” after unit has been preheated, and belt wraps may start to smoke.	Auxiliary thermocouple is disconnected or “open”.	If auxiliary thermocouple circuit is not “open”, replace control board.
	Auxiliary circuit overheating due to auxiliary solid state relay shorted closed.	Replace auxiliary solid state relay.
Display flashes “LO” constantly, buns burn and hi-limit switch trips.	Platen thermocouple is grounded or inoperable.	Replace platen thermocouple.
	Control board is defective.	If platen thermocouple is not grounded, replace control board.
Unit makes high pitched squeal or whining noise.	Inoperable drive motor.	If noise is identified as motor, replace it.
	Inoperable teflon bearings.	Replace teflon bearings.
	Inoperable ball bearings.	Replace ball bearings.

WIRING DIAGRAMS

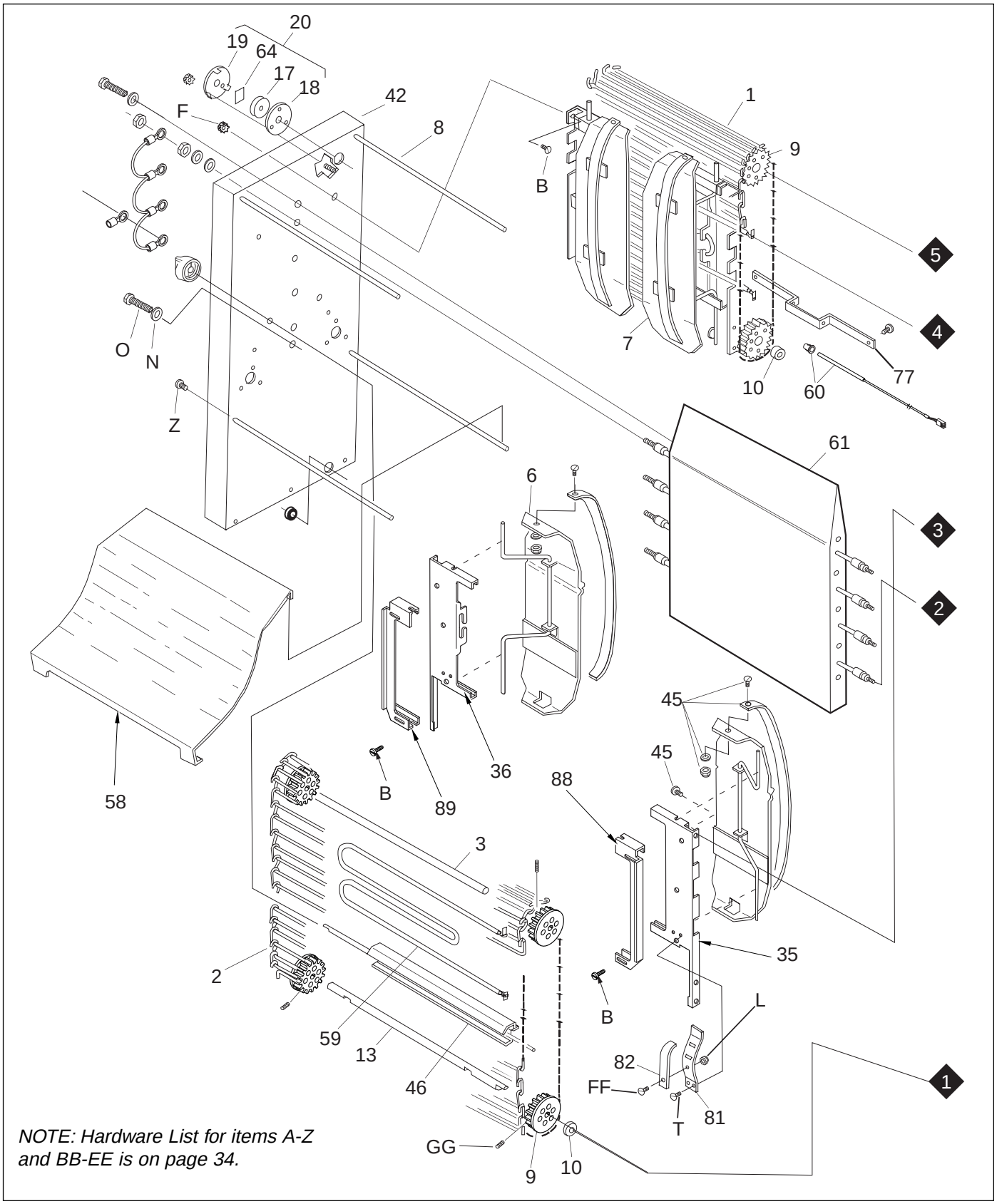
Schematic Wiring Diagram



Ladder Wiring Diagram



REPLACEMENT PARTS

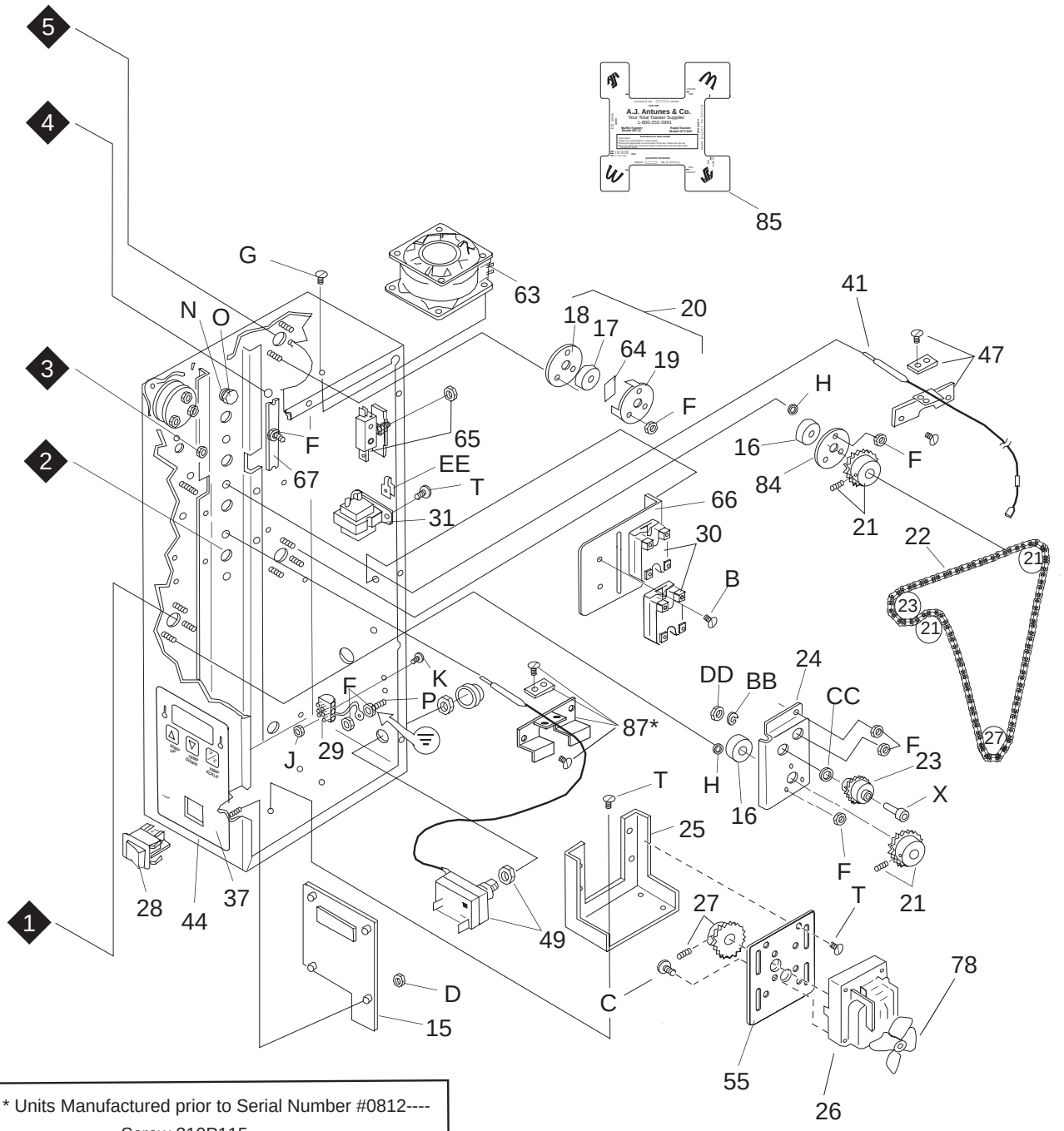


NOTE: Hardware List for items A-Z and BB-EE is on page 34.

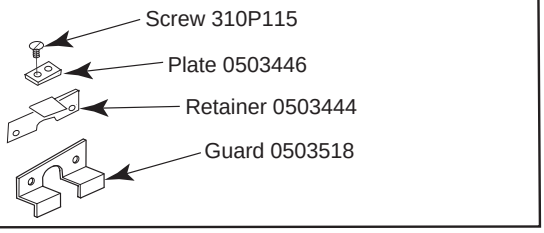
Item	Part No.	Description	Qty.
1	0011266	Conveyor Belt (Crown)	1
	0800204	1/2" Pitch Link, Small	2
	0800121	3/4" Pitch Link, Large	38
2	0011264	Conveyor Belt (Heel)	1
	0800204	1/2" Pitch Link, Small	4
	0800121	3/4" Pitch Link, Large	37
3	2150117	Idler Shaft	2
4	0011295	Conveyor Cover Assy., Front (Heel/Club)	1
5	0011296	Conveyor Cover Assy., Rear (Crown)	1
6	0011242	Tensioner Assy., Front	2
7	0011262	Tensioner Assy., Rear	2
8	0800332	Rod, Conveyor Cover	4
9	7000207	Sprocket w/Setscrew	8
10	7000199	Spacer Kit	2
11	7000230	Control Cover (Incl. #48) (Used after 1/1/99)	1
11A	7000231	Control Cover (Incl. #48) (Used before 1/1/99)	1
12	1001052	Label, Cover Installation	2
13	2150118	Drive Shaft	2
14	0700482	Power Cord/Plug, Pin & Sleeve (Std.) Mfg. No. 9200500	1
	0700495	Power Cord/Plug, Twist & Lock Angle Mfg. No. 9200502	1
	0700577	Power Cord/Plug, Twist & Lock Straight Mfg. No. 9200504	1
15	7000171	Control Board	1
16	2150158	Ball Bearing	2
17	2150186	Teflon Bearing	6
18	0503459	Bearing Retainer/Spacer	6
19	0503376	Bearing Retainer	6
20	7000167	Bearing & Retainer Kit (Incl. #17,18,19 & 79)	1
21	2150181	Sprocket, Drive w/Setscrew	2
22	2150187	Drive Chain	1
23	0011299	Idler Sprocket & Bearing	1
24	0501232	Bracket, Idler Sprocket	1
25	0503589	Bracket, Motor Mounting	1
26	7000175	Drive Motor Kit (Incl. #78)	1
27	2150129	Sprocket, Motor w/Setscrew	1
28	4010137	Rocker Switch, On/Off (250 VAC)	1
29	4060355	Terminal Block	1
30	405K125	Relay, Solid State	2
31	4010187	Transformer	1
32	7000183	Conveyor Belt Wrap (Pack of 2)	1
33	7000186	Roller Tensioner Assy. (Pack of 2)	1
34	0021164	Bun Feeder	1
35	0503496	Tensioner Bracket, RH	2
36	0503497	Tensioner Bracket, LH	2
37	1001006	Label, Control	1
38	100P1026	Label, Dial (Pack of 10)	1
39	2100253	Knob, Control	2
40	7000232	Cover, End (Used after 1/1/99)	1
40A	7000233	Cover, End (Used before 1/1/99)	1
41	4050214	Thermocouple Assy. (Platen)	1

Item	Part No.	Description	Qty.
42	0021175	Weldment, End Housing	1
43	7000110	Release Sheet (Pack of 3)	-
	7000111	Release Sheet (Pack of 10)	-
44	0021174	Control Housing	1
45	7000121	Slide Rail Kit (Includes 2 slide rails for tensioners)	2
46	0021183	Conveyor Cam	2
47	7000176	Thermocouple Retainer Kit	1
48	2100212	Lifting Handle	2
49	4030332	High Limit Thermostat	1
50	0400315	Strain Relief	1
51	0400138	Locknut, 1/2"	1
52	0503405	Base, Outer	1
53	4030326	Heater, Bun Landing	1
54	0503407	Base, Inner	1
55	0503590	Bracket, Motor	1
56	0700570	Wire Set (not shown)	1
57	0200211	Gasket, Base	1
58	0503425	Bun Chute	1
59	4030327	Auxiliary Heater, Air	2
60	7000165	Auxiliary Thermocouple Kit	1
61	7000191	Platen (208 VOLT)	1
62	0021182	Weldment, Fan Duct	1
63	4000138	Axial Fan	1
64	2100256	Teflon Thrust Strip	6
65	4010107	Interlock Switch	2
66	0503359	Bracket, Relay	1
67	0503150	Heater Clip	2
68	0021177	Heat Shield, Front	1
69	0021178	Heat Shield, Rear	1
70	303P125	Hinge Pin, Belt Wrap (Pk. of 10)	2
70A	303P127	Hinge Pin, Belt Wrap (Pk. of 10) (Larger diameter used on all belts shipped after 10-1-98)	2
71	1001023	Label, Caution Hot	1
72	0503368	Fascia, Bun Stop	1
73	0900225	Bun Stop	1
74	0021224	Inner Conveyor Cover	2
74A	7000226	Inner Conveyor Cover Kit (Incl. #33, 74, 79, 83, L & T)	1
75	0400312	Teflon Damper	2
76	0503367	Clamp, Damper	2
77	0503321	Bracket, Auxiliary Thermocouple	1
78	4000170	Fan Blade, Motor	1
79	2100252	Teflon Slip Strip	6
80	0011301	Damper Support Assy.	2
81	0503455	Tension Spring, Inner	4
82	2100259	Slide Bar	4
83	0502199	Spacer	8
84	0500464	Retainer, Bearing	1
85	0900228	Bun Gauge	1
86	0700579	Wire Set	1
87	7000203	Thermocouple Retainer/Chain Guard Kit	1
88	0503495	Retainer, Tensioner Bracket, RH	1
89	0503507	Retainer, Tensioner Bracket, LH	1
	2140146	Aerosol Lubricant CR3 3-36 (not shown)	1

REPLACEMENT PARTS (continued)



* Units Manufactured prior to Serial Number #0812----

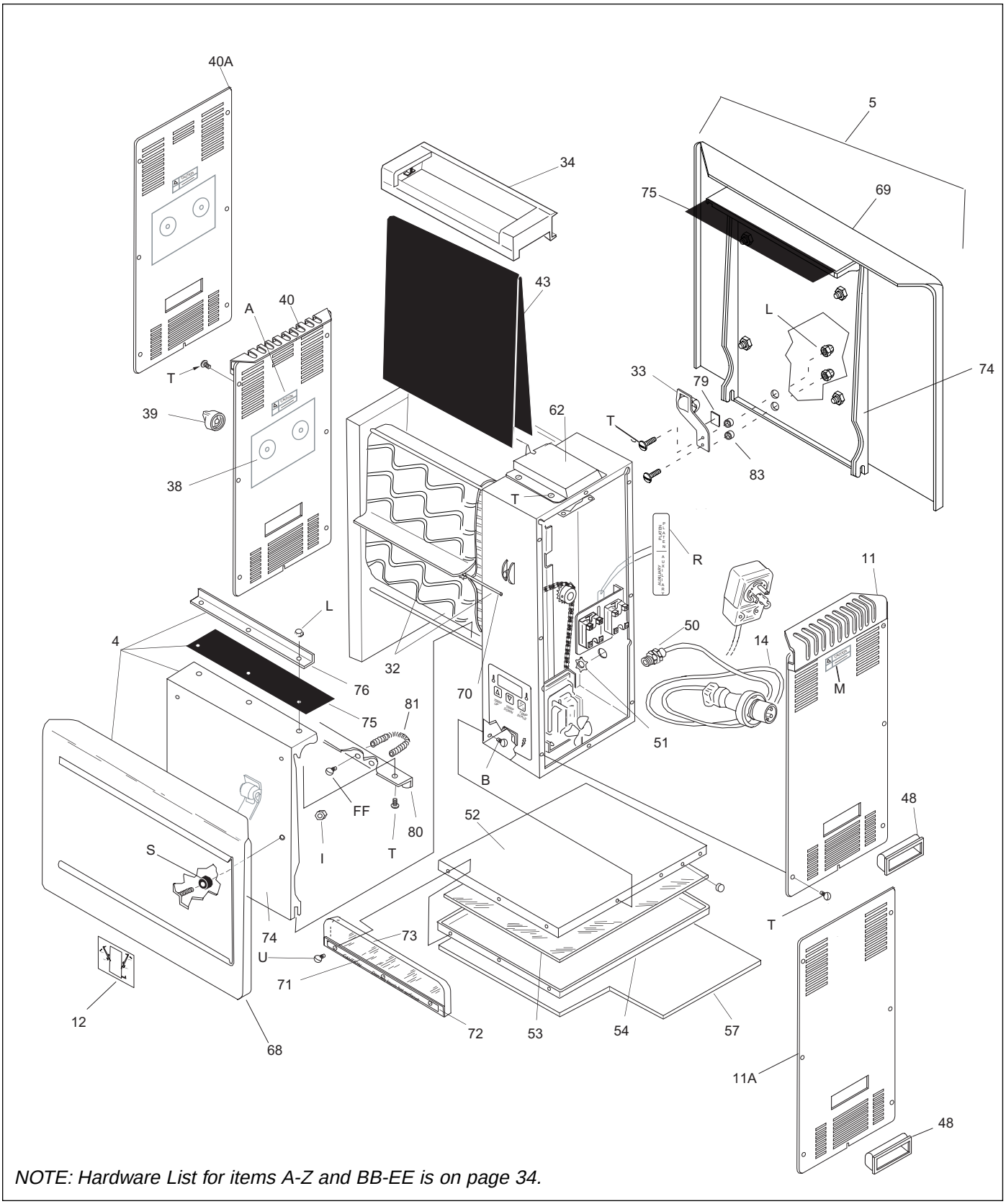


NOTE: Hardware List for items A-Z and BB-EE is on page 34.

Item	Part No.	Description	Qty.
1	0011266	Conveyor Belt (Crown)	1
	0800204	1/2" Pitch Link, Small	2
	0800121	3/4" Pitch Link, Large	38
2	0011264	Conveyor Belt (Heel)	1
	0800204	1/2" Pitch Link, Small	4
	0800121	3/4" Pitch Link, Large	37
3	2150117	Idler Shaft	2
4	0011295	Conveyor Cover Assy., Front (Heel/Club)	1
5	0011296	Conveyor Cover Assy., Rear (Crown)	1
6	0011242	Tensioner Assy., Front	2
7	0011262	Tensioner Assy., Rear	2
8	0800332	Rod, Conveyor Cover	4
9	7000207	Sprocket w/Setscrew	8
10	7000199	Spacer Kit	2
11	7000230	Control Cover (Incl. #48) (Used after 1/1/99)	1
11A	7000231	Control Cover (Incl. #48) (Used before 1/1/99)	1
12	1001052	Label, Cover Installation	2
13	2150118	Drive Shaft	2
14	0700482	Power Cord/Plug, Pin & Sleeve (Std.) Mfg. No. 9200500	1
	0700495	Power Cord/Plug, Twist & Lock Angle Mfg. No. 9200502	1
	0700577	Power Cord/Plug, Twist & Lock Straight Mfg. No. 9200504	1
15	7000171	Control Board	1
16	2150158	Ball Bearing	2
17	2150186	Teflon Bearing	6
18	0503459	Bearing Retainer/Spacer	6
19	0503376	Bearing Retainer	6
20	7000167	Bearing & Retainer Kit (Incl. #17,18,19 & 79)	1
21	2150181	Sprocket, Drive w/Setscrew	2
22	2150187	Drive Chain	1
23	0011299	Idler Sprocket & Bearing	1
24	0501232	Bracket, Idler Sprocket	1
25	0503589	Bracket, Motor Mounting	1
26	7000175	Drive Motor Kit (Incl. #78)	1
27	2150129	Sprocket, Motor w/Setscrew	1
28	4010137	Rocker Switch, On/Off (250 VAC)	1
29	4060355	Terminal Block	1
30	405K125	Relay, Solid State	2
31	4010187	Transformer	1
32	7000183	Conveyor Belt Wrap (Pack of 2)	1
33	7000186	Roller Tensioner Assy. (Pack of 2)	1
34	0021164	Bun Feeder	1
35	0503496	Tensioner Bracket, RH	2
36	0503497	Tensioner Bracket, LH	2
37	1001006	Label, Control	1
38	100P1026	Label, Dial (Pack of 10)	1
39	2100253	Knob, Control	2
40	7000232	Cover, End (Used after 1/1/99)	1
40A	7000233	Cover, End (Used before 1/1/99)	1
41	4050214	Thermocouple Assy. (Platen)	1

Item	Part No.	Description	Qty.
42	0021175	Weldment, End Housing	1
43	7000110	Release Sheet (Pack of 3)	-
	7000111	Release Sheet (Pack of 10)	-
44	0021174	Control Housing	1
45	7000121	Slide Rail Kit (Includes 2 slide rails for tensioners)	2
46	0021183	Conveyor Cam	2
47	7000176	Thermocouple Retainer Kit	1
48	2100212	Lifting Handle	2
49	4030332	High Limit Thermostat	1
50	0400315	Strain Relief	1
51	0400138	Locknut, 1/2"	1
52	0503405	Base, Outer	1
53	4030326	Heater, Bun Landing	1
54	0503407	Base, Inner	1
55	0503590	Bracket, Motor	1
56	0700570	Wire Set (not shown)	1
57	0200211	Gasket, Base	1
58	0503425	Bun Chute	1
59	4030327	Auxiliary Heater, Air	2
60	7000165	Auxiliary Thermocouple Kit	1
61	7000191	Platen (208 VOLT)	1
62	0021182	Weldment, Fan Duct	1
63	4000138	Axial Fan	1
64	2100256	Teflon Thrust Strip	6
65	4010107	Interlock Switch	2
66	0503359	Bracket, Relay	1
67	0503150	Heater Clip	2
68	0021177	Heat Shield, Front	1
69	0021178	Heat Shield, Rear	1
70	303P125	Hinge Pin, Belt Wrap (Pk. of 10)	2
70A	303P127	Hinge Pin, Belt Wrap (Pk. of 10) (Larger diameter used on all belts shipped after 10-1-98)	2
71	1001023	Label, Caution Hot	1
72	0503368	Fascia, Bun Stop	1
73	0900225	Bun Stop	1
74	0021224	Inner Conveyor Cover	2
74A	7000226	Inner Conveyor Cover Kit (Incl. #33, 74, 79, 83, L & T)	1
75	0400312	Teflon Damper	2
76	0503367	Clamp, Damper	2
77	0503321	Bracket, Auxiliary Thermocouple	1
78	4000170	Fan Blade, Motor	1
79	2100252	Teflon Slip Strip	6
80	0011301	Damper Support Assy.	2
81	0503455	Tension Spring, Inner	4
82	2100259	Slide Bar	4
83	0502199	Spacer	8
84	0500464	Retainer, Bearing	1
85	0900228	Bun Gauge	1
86	0700579	Wire Set	1
87	7000203	Thermocouple Retainer/Chain Guard Kit	1
88	0503495	Retainer, Tensioner Bracket, RH	1
89	0503507	Retainer, Tensioner Bracket, LH	1
	2140146	Aerosol Lubricant CR3 3-36 (not shown)	1

REPLACEMENT PARTS (continued)



NOTE: Hardware List for items A-Z and BB-EE is on page 34.

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	0800121	3/4" Pitch Link, Large	38
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	0800204	1/2" Pitch Link, Small	4
	0800121	3/4" Pitch Link, Large	37
3	2150117	Idler Shaft	2
4	0011295	Conveyor Cover Assy., Front (Heel/Club)	1
5	0011296	Conveyor Cover Assy., Rear (Crown)	1
6	0011242	Tensioner Assy., Front	2
7	0011262	Tensioner Assy., Rear	2
8	0800332	Rod, Conveyor Cover	4
9	7000207	Sprocket w/Setscrew	8
10	7000199	Spacer Kit	2
11	7000230	Control Cover (Incl. #48) (Used after 1/1/99)	1
11A	7000231	Control Cover (Incl. #48) (Used before 1/1/99)	1
12	1001052	Label, Cover Installation	2
13	2150118	Drive Shaft	2
14	0700482	Power Cord/Plug, Pin & Sleeve (Std.) Mfg. No. 9200500	1
	0700495	Power Cord/Plug, Twist & Lock Angle Mfg. No. 9200502	1
	0700577	Power Cord/Plug, Twist & Lock Straight Mfg. No. 9200504	1
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17	2150186	Teflon Bearing	6
18	0503459	Bearing Retainer/Spacer	6
19	0503376	Bearing Retainer	6
20	7000167	Bearing & Retainer Kit (Incl. #17,18,19 & 79)	1
21	2150181	Sprocket, Drive w/Setscrew	2
22	2150187	Drive Chain	1
23	0011299	Idler Sprocket & Bearing	1
24	0501232	Bracket, Idler Sprocket	1
25	0503589	Bracket, Motor Mounting	1
26	7000175	Drive Motor Kit (Incl. #78)	1
27	2150129	Sprocket, Motor w/Setscrew	1
28	4010137	Rocker Switch, On/Off (250 VAC)	1
29	4060355	Terminal Block	1
30	405K125	Relay, Solid State	2
31	4010187	Transformer	1
32	7000183	Conveyor Belt Wrap (Pack of 2)	1
33	7000186	Roller Tensioner Assy. (Pack of 2)	1
34	0021164	Bun Feeder	1
35	0503496	Tensioner Bracket, RH	2
36	0503497	Tensioner Bracket, LH	2
37	1001006	Label, Control	1
38	100P1026	Label, Dial (Pack of 10)	1
39	2100253	Knob, Control	2
40	7000232	Cover, End (Used after 1/1/99)	1
40A	7000233	Cover, End (Used before 1/1/99)	1
41	4050214	Thermocouple Assy. (Platen)	1

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42	0021175	Weldment, End Housing	1
43	7000110	Release Sheet (Pack of 3)	-
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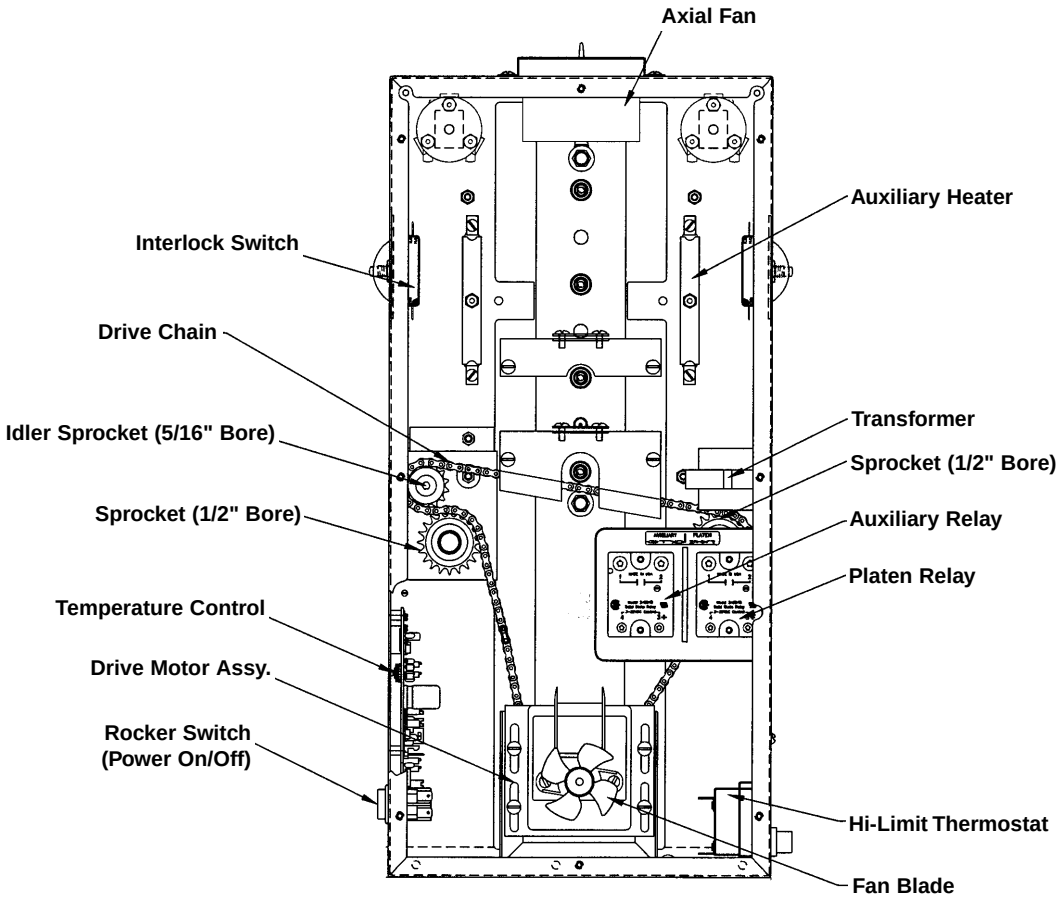
46	0021183	Conveyor Cam	2
47	7000176	Thermocouple Retainer Kit	1
48	2100212	Lifting Handle	2
49	4030332	High Limit Thermostat	1
50	0400315	Strain Relief	1
51	0400138	Locknut, 1/2"	1
52	0503405	Base, Outer	1
53	4030326	Heater, Bun Landing	1
54	0503407	Base, Inner	1
55	0503590	Bracket, Motor	1
56	0700570	Wire Set (not shown)	1
57	0200211	Gasket, Base	1
58	0503425	Bun Chute	1
59	4030327	Auxiliary Heater, Air	2
60	7000165	Auxiliary Thermocouple Kit	1
61	7000191	Platen (208 VOLT)	1
62	0021182	Weldment, Fan Duct	1
63	4000138	Axial Fan	1
64	2100256	Teflon Thrust Strip	6
65	4010107	Interlock Switch	2
66	0503359	Bracket, Relay	1
67	0503150	Heater Clip	2
68	0021177	Heat Shield, Front	1
69	0021178	Heat Shield, Rear	1
70	303P125	Hinge Pin, Belt Wrap (Pk. of 10)	2
70A	303P127	Hinge Pin, Belt Wrap (Pk. of 10) (Larger diameter used on all belts shipped after 10-1-98)	2
71	1001023	Label, Caution Hot	1
72	0503368	Fascia, Bun Stop	1
73	0900225	Bun Stop	1
74	0021224	Inner Conveyor Cover	2
74A	7000226	Inner Conveyor Cover Kit (Incl. #33, 74, 79, 83, L & T)	1
75	0400312	Teflon Damper	2
76	0503367	Clamp, Damper	2
77	0503321	Bracket, Auxiliary Thermocouple	1
78	4000170	Fan Blade, Motor	1
79	2100252	Teflon Slip Strip	6
80	0011301	Damper Support Assy.	2
81	0503455	Tension Spring, Inner	4
82	2100259	Slide Bar	4
83	0502199	Spacer	8
84	0500464	Retainer, Bearing	1
85	0900228	Bun Gauge	1
86	0700579	Wire Set	1
87	7000203	Thermocouple Retainer/Chain Guard Kit	1
88	0503495	Retainer, Tensioner Bracket, RH	1
89	0503507	Retainer, Tensioner Bracket, LH	1
	2140146	Aerosol Lubricant CR3 3-36 (not shown)	1

REPLACEMENT PARTS (continued)

Parts Identification



Hardware List

The following items are only available in packages of 10.

Item	Part No.	Description	Qty.
A	100P864	Label, Caution Hot	1
B	308P115	Screw, #8-32 x 3/8" (10 mm)	10
C	310P154	Screw, #10-32 x 3/8"	4
D	304P105	Nut, #4-40, "KEPS"	1
E	406P107	Cable Tie	1
F	308P143	Nut, #8-32, "KEPS"	3
G	310P103	Screw, #10-32 x 1/4"	1
H	310P140	Washer, #10	3
I	308P101	Nut, #8-32	3
J	306P101	Nut, Hex, #6-32	1
K	306P123	Screw, #6-32 x 7/8"	1
L	308P145	Nut, Hex Acorn, #8-32	1
M	100P900	Label, Service	1
N	325P104	Washer, 1/4"	1
O	325P109	Screw, 1/4-20 x 1/2"	1
P	308P124	Screw, 1-Way, #8-32 x 1/2"	1

Item	Part No.	Description	Qty.
R	10P1022	Label, Heaters	1
S	212P111	Spacer	1
T	308P133	Screw, #8-32 x 1/4"	1
U	308P120	Screw, #8-32 x 5/8"	1
V	308P104	Screw, #8-32 x 3/8"	1
W	308P105	Screw, #8-32 x 1/2"	1
X	331P103	Shoulder Bolt, 5/16-18 x l"	1
Y	040P111	Bushing, Shorty, 1/2" (not shown)	1
Z	306P105	Screw, #6-32 x 1/2"	1
BB	331P106	Lockwasher, 5/16"	1
CC	212P118	Flat Washer, 5/16"	1
DD	331P101	Nut, Hex, 5/16 x 18"	1
EE	300P102	Nut, Tinnerman	2
FF	306P104	Screw, #6-32 x 1/4"	8
GG	325P163	Setscrew, 1/4-28 x 5/16"	8

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